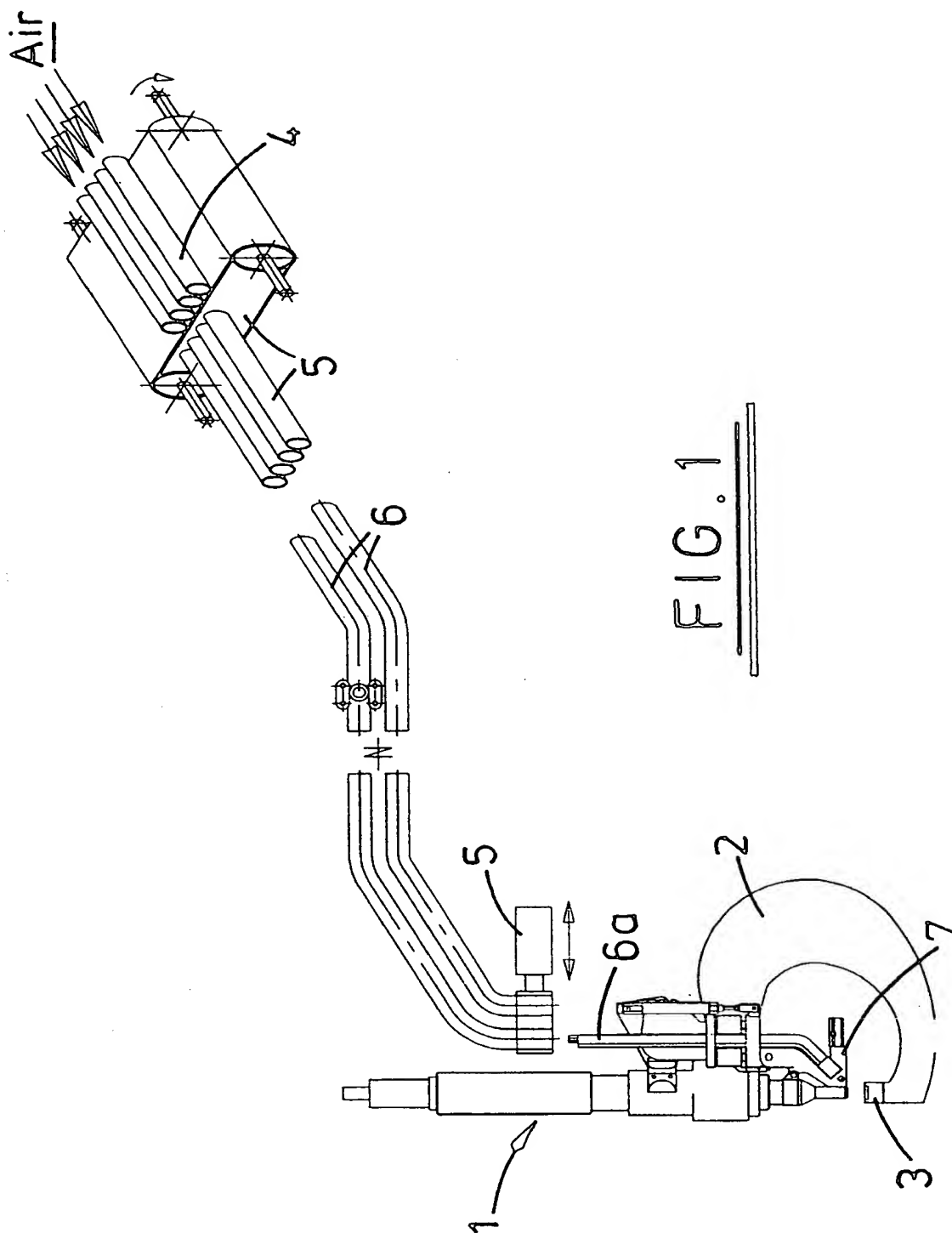


1-57



2-57

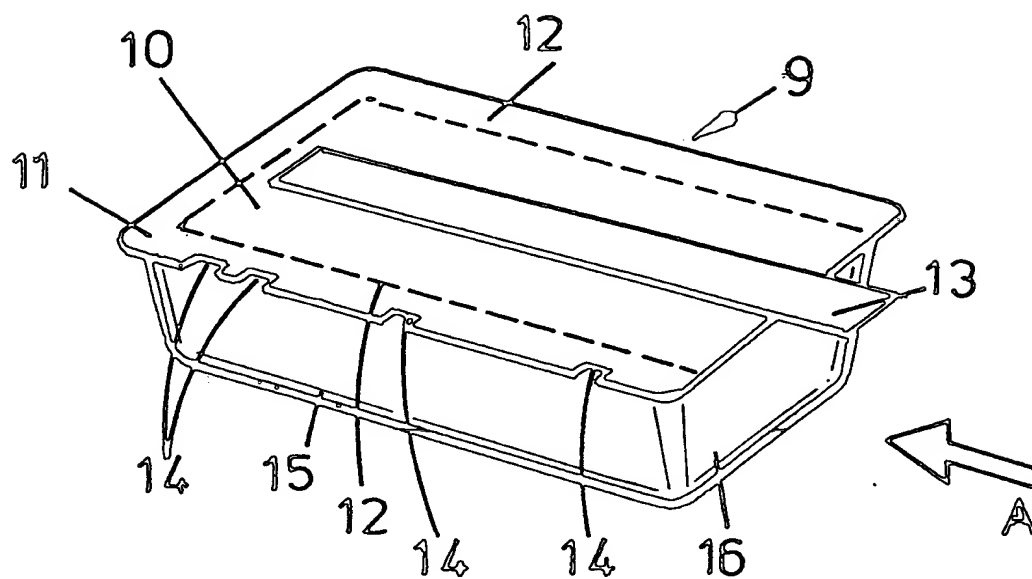


FIG. 2

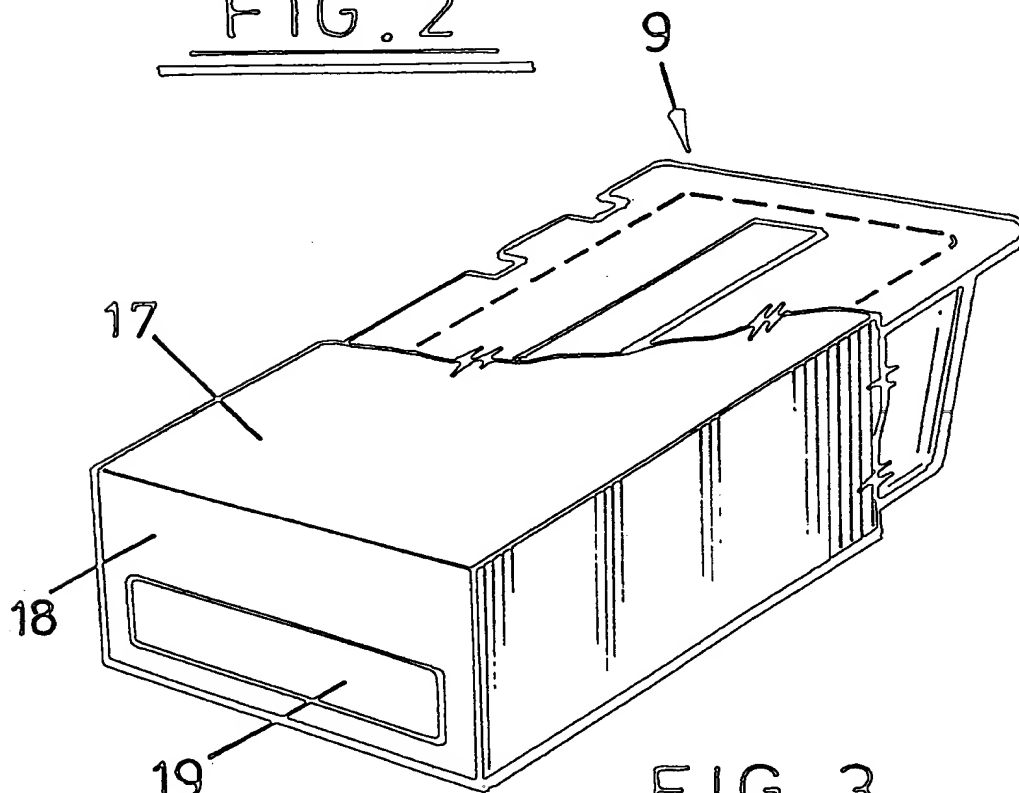


FIG. 3

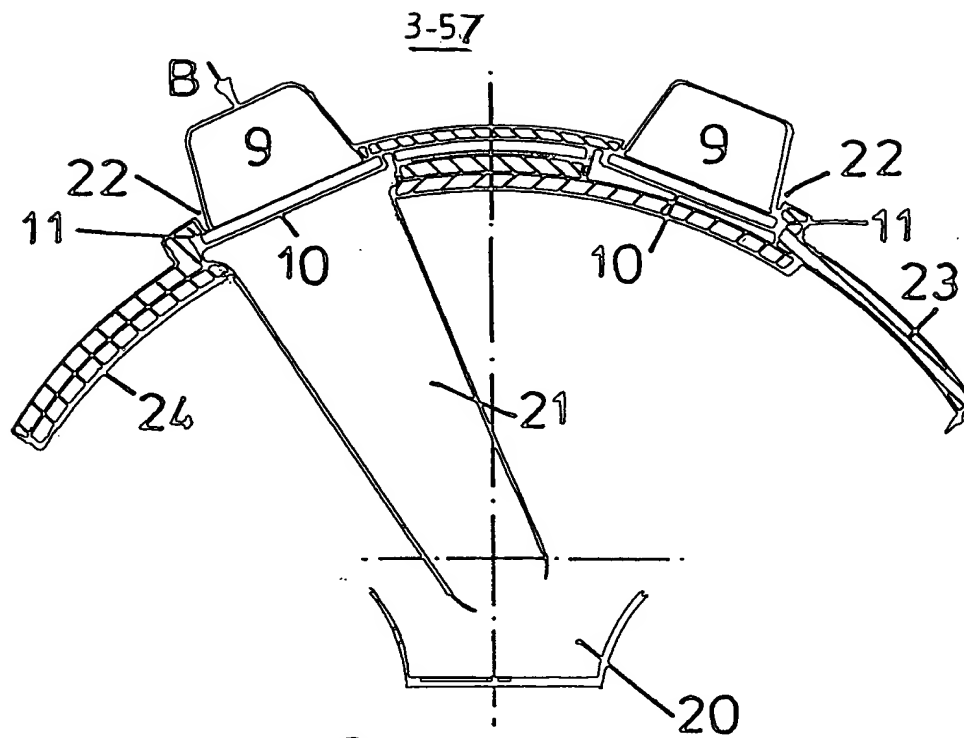


FIG. 4

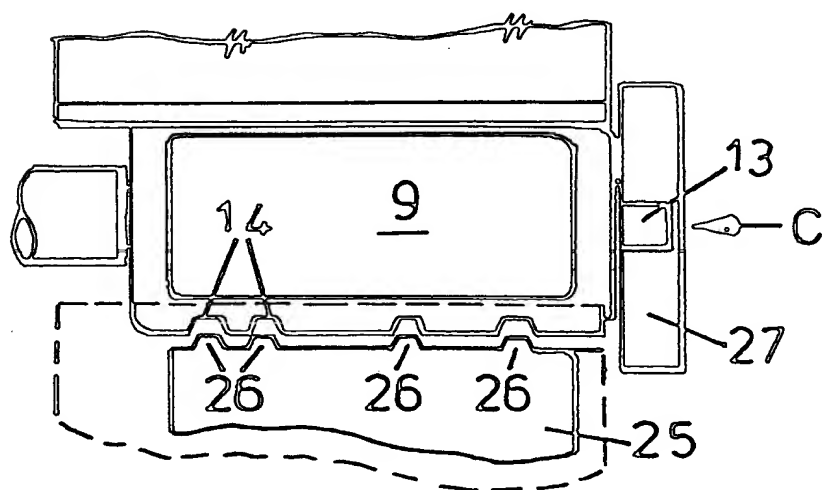


FIG. 5

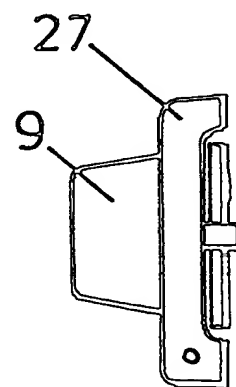
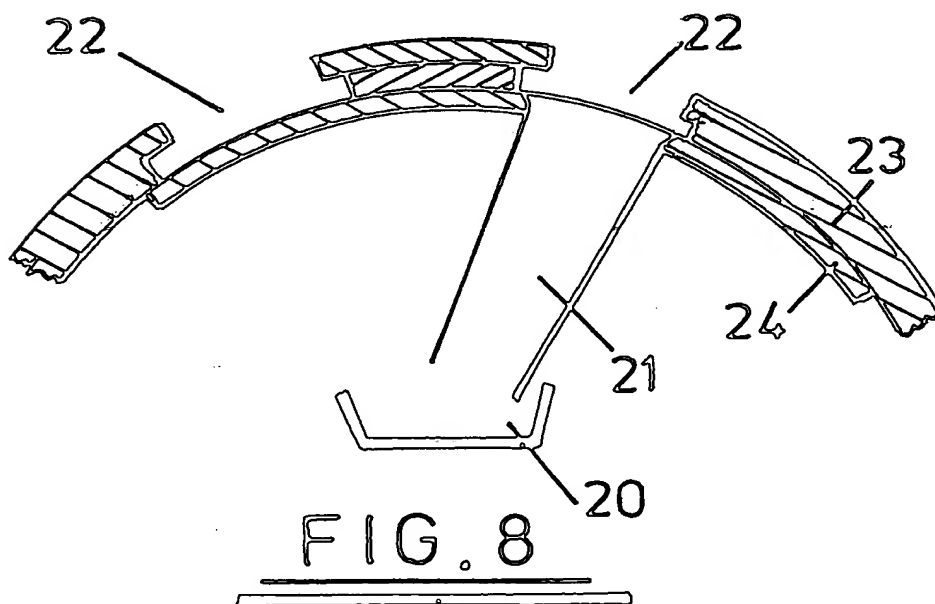
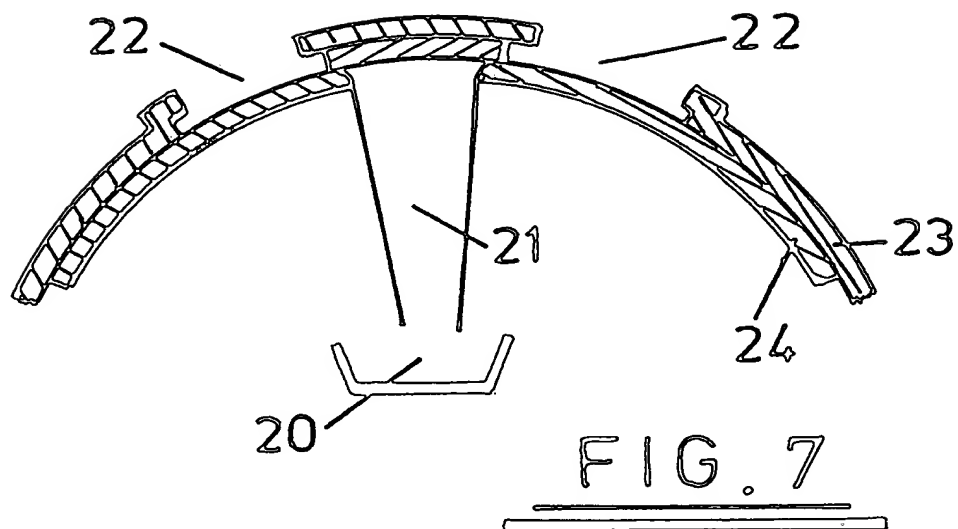
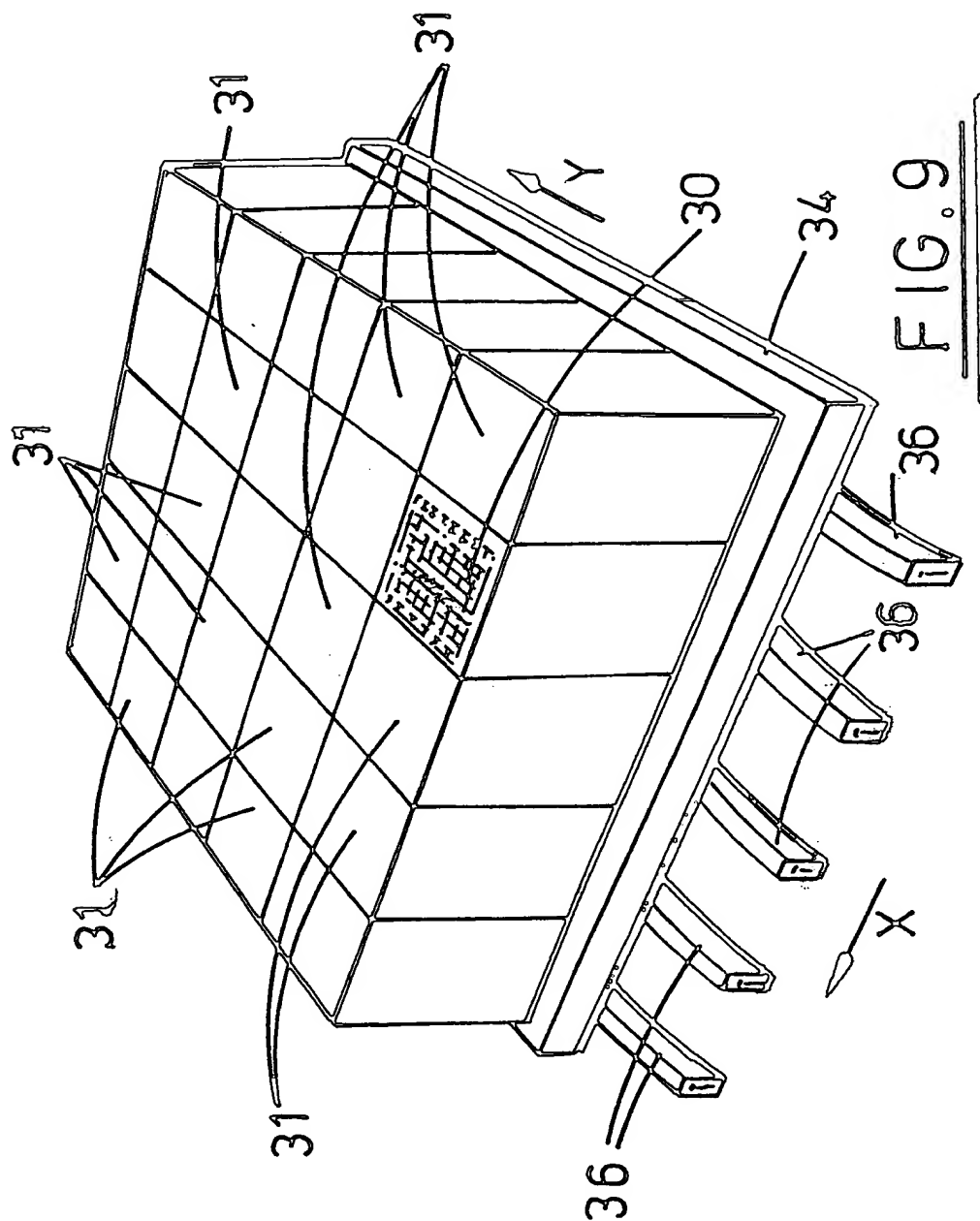


FIG. 6

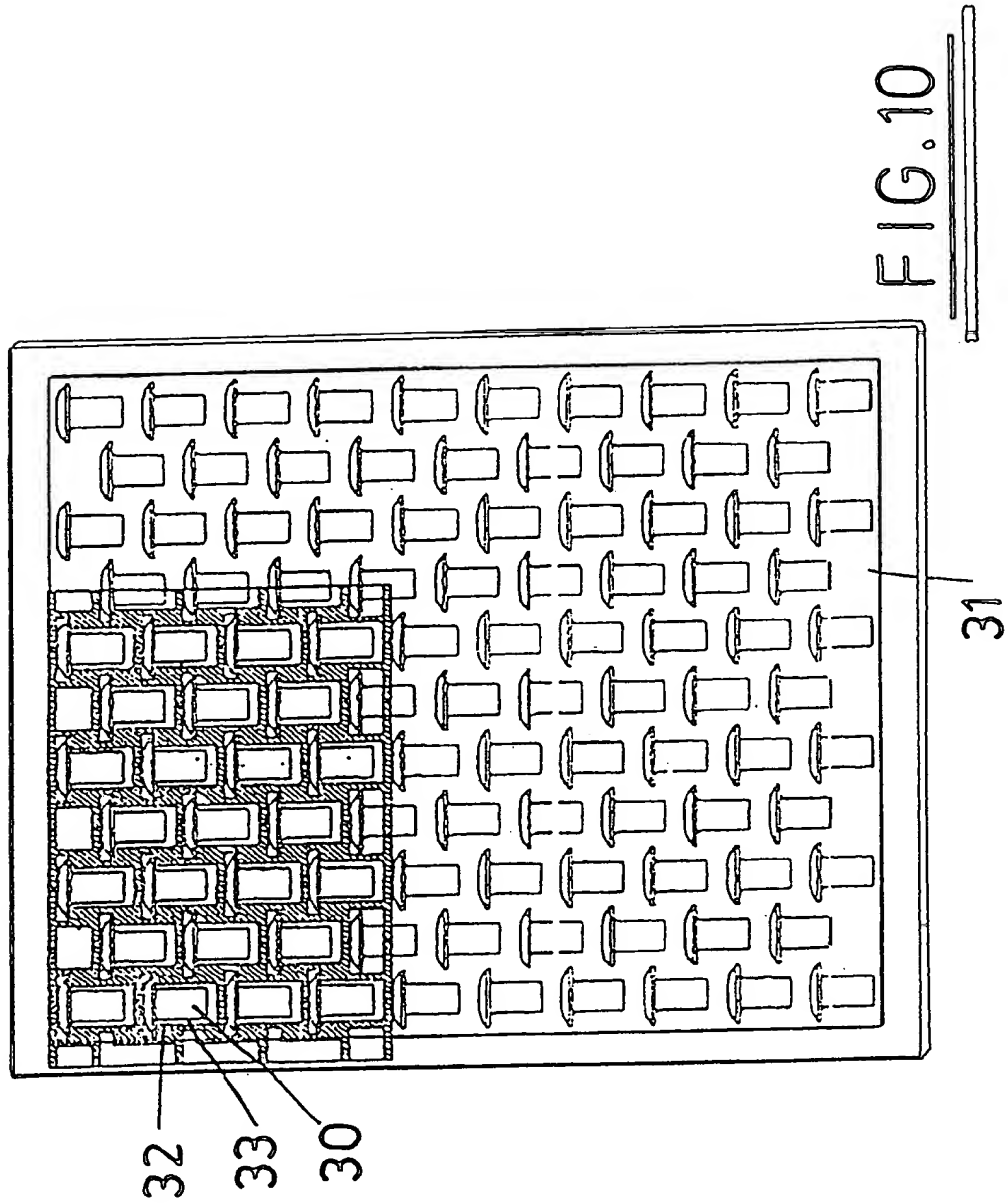
4-57



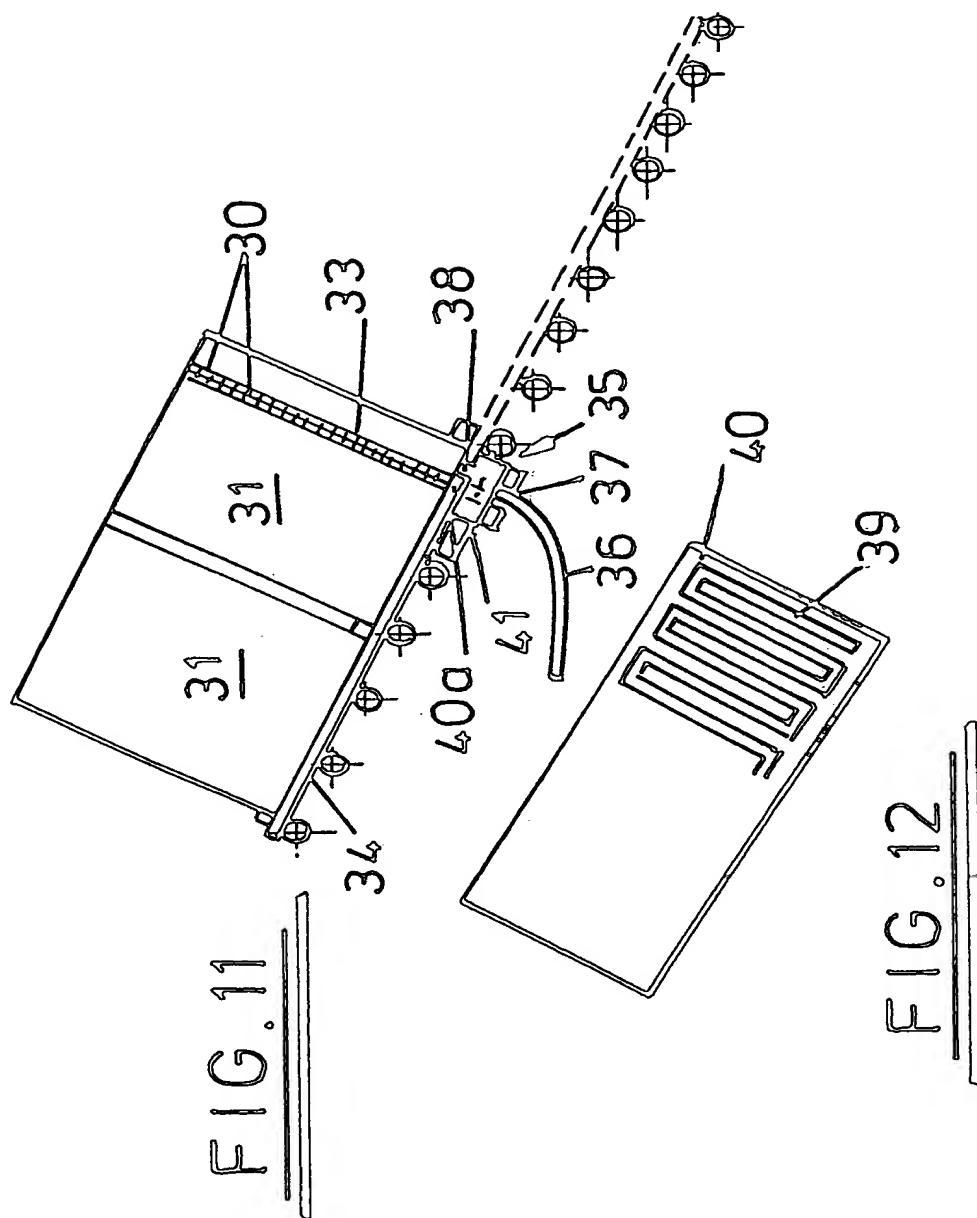
5-57



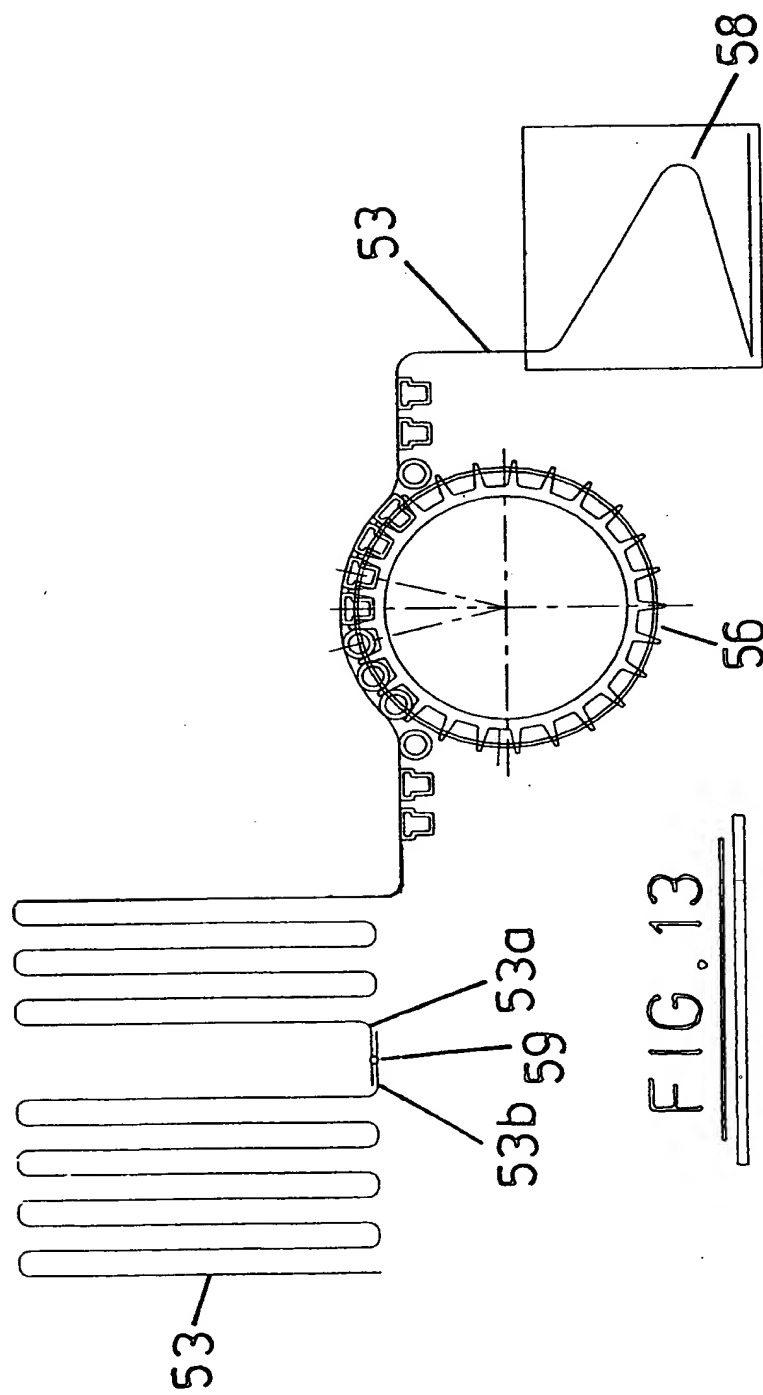
6-57



7-57



8-57





9-57

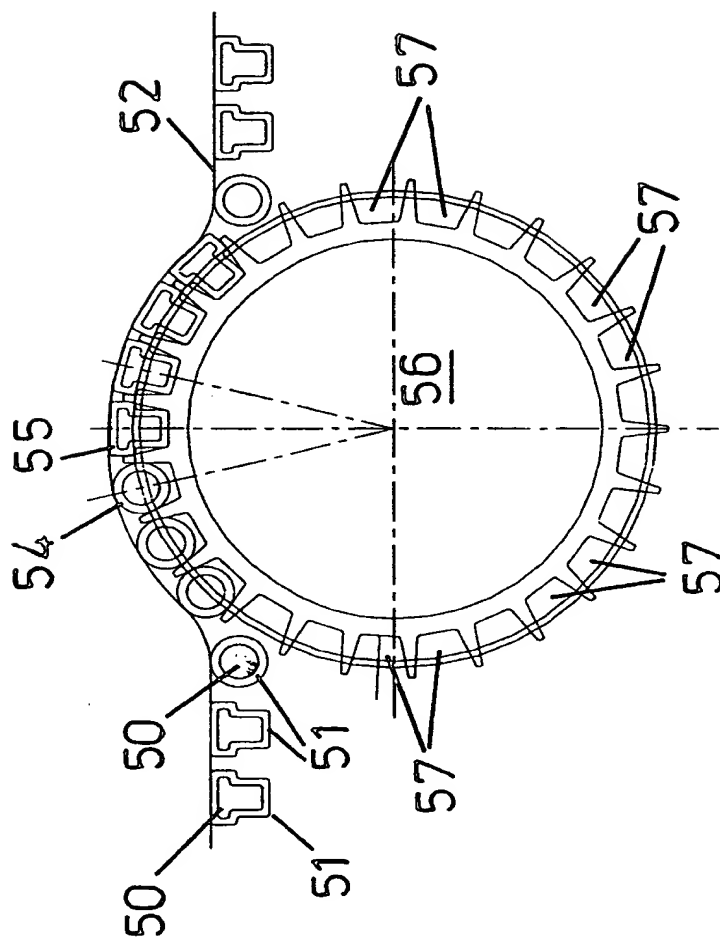
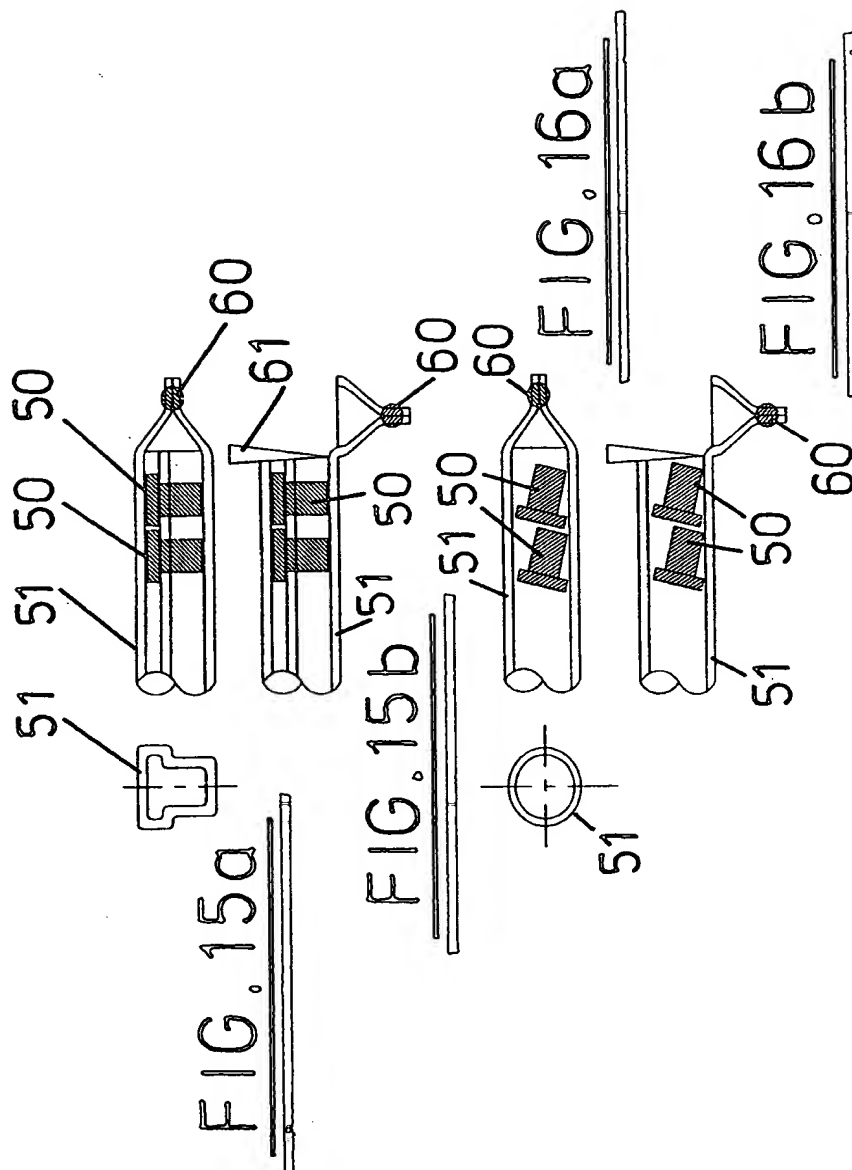
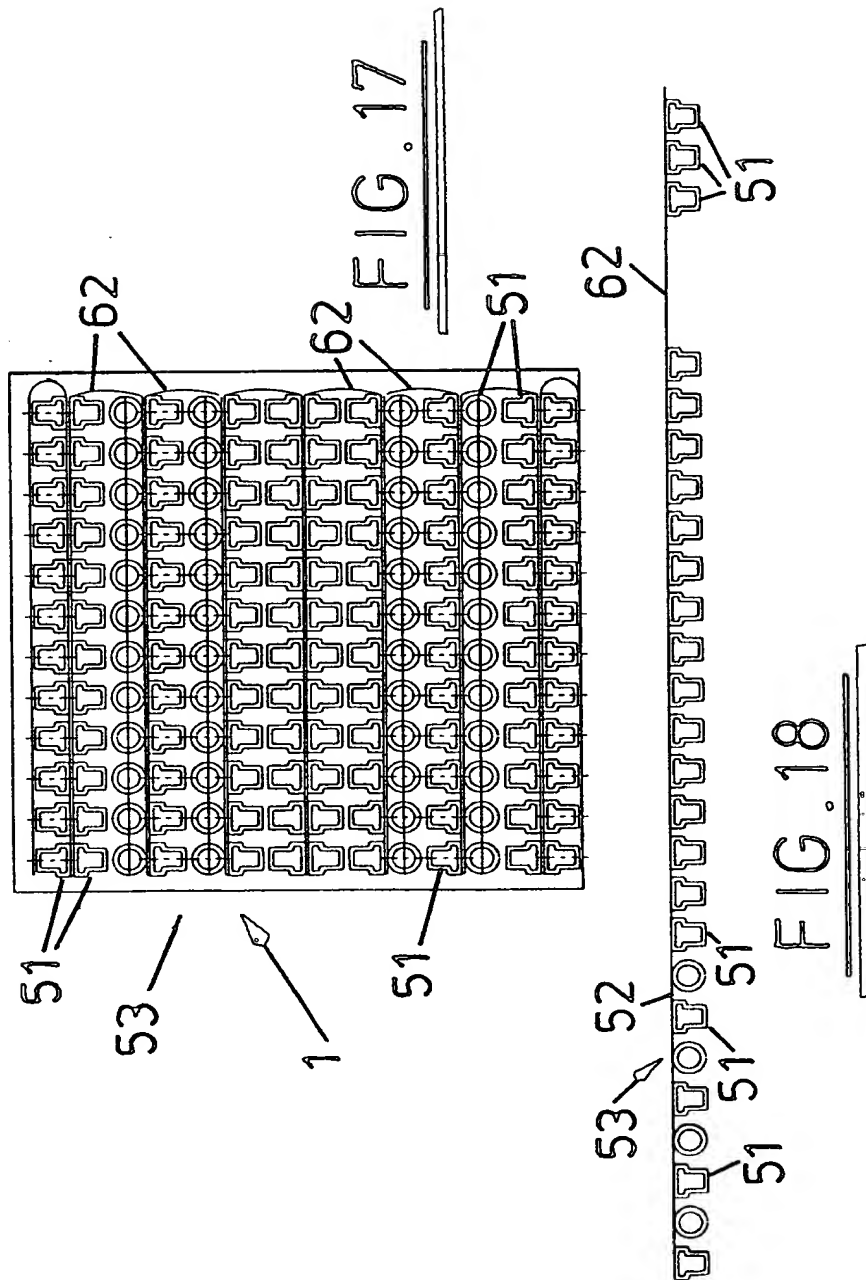


FIG. 14

10-57



11-57



12-57

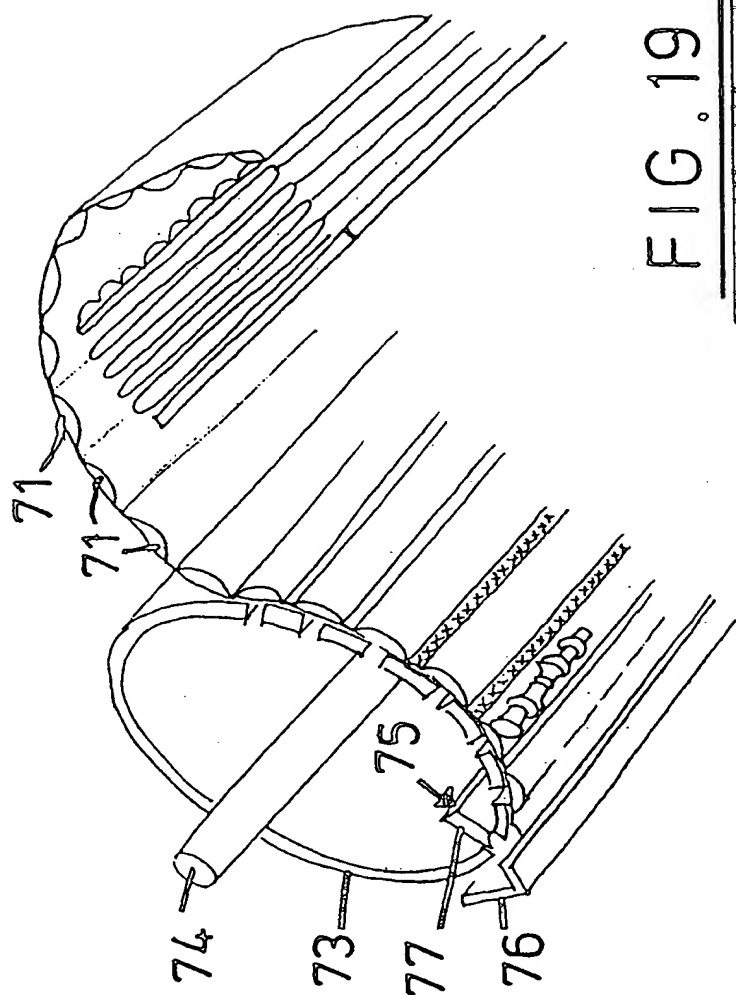


FIG. 19

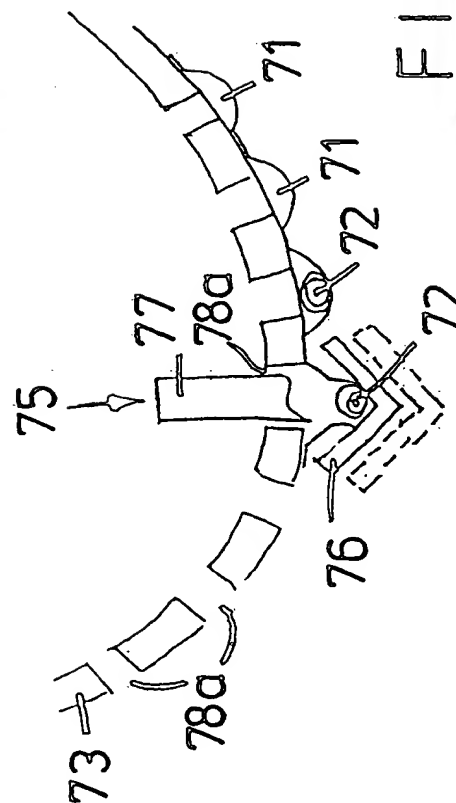
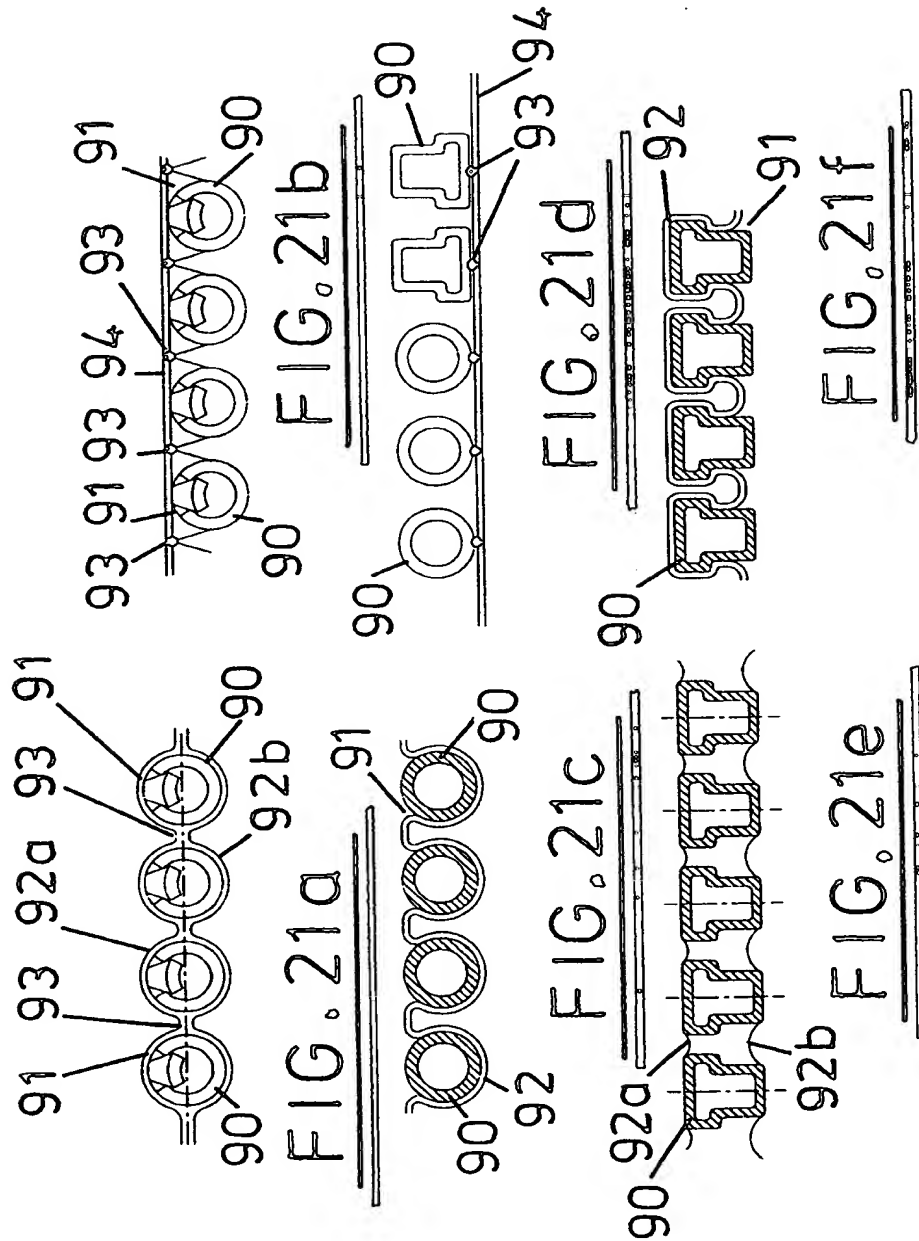
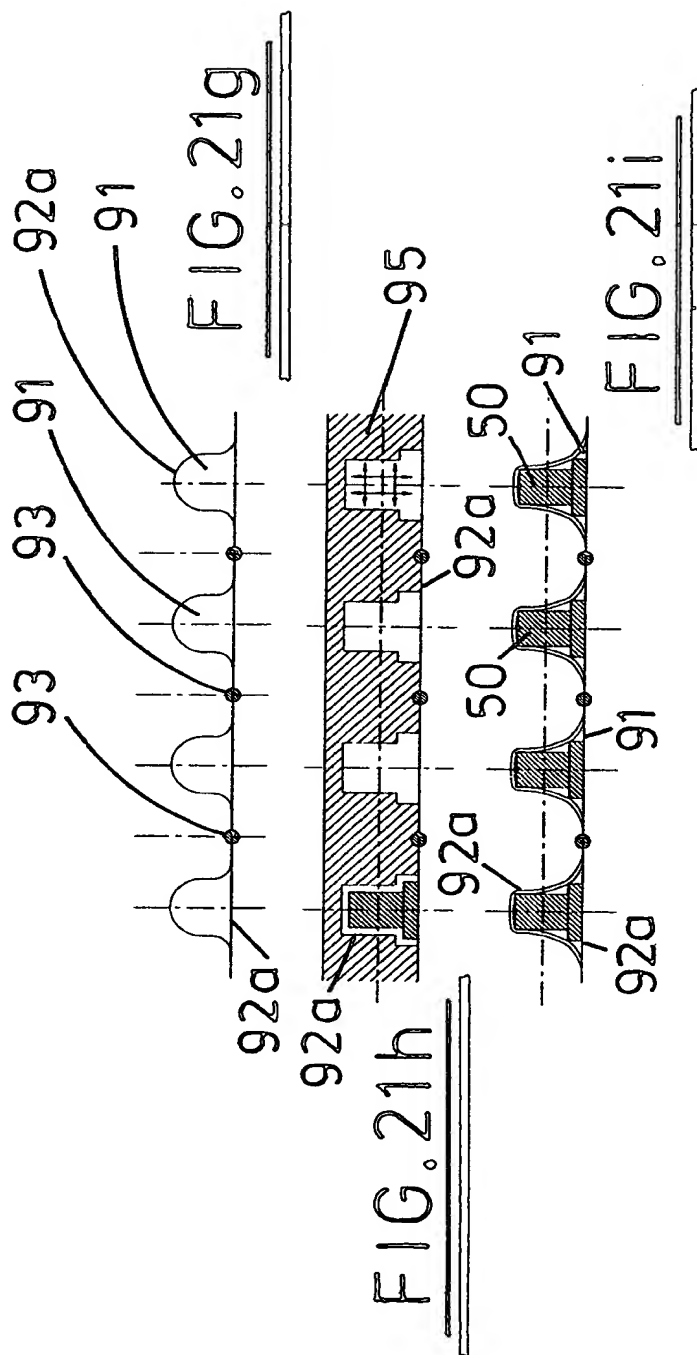
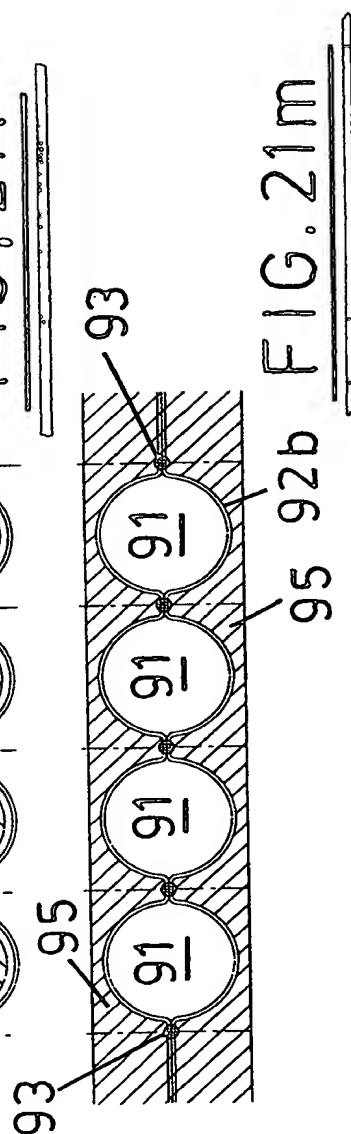
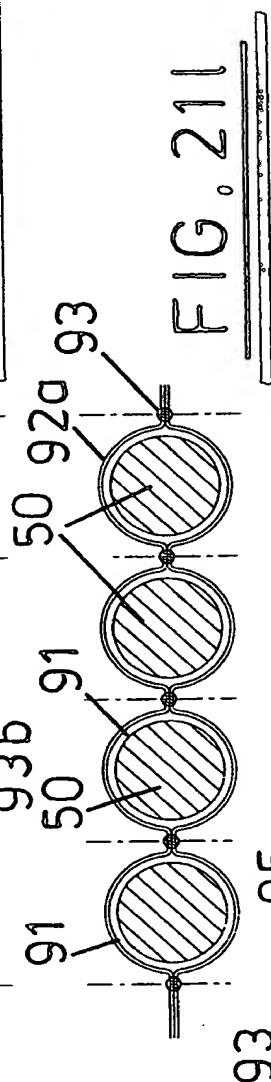
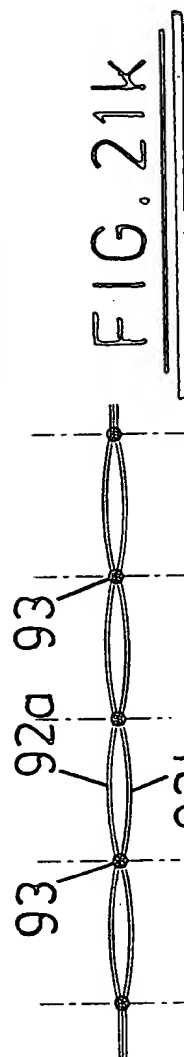
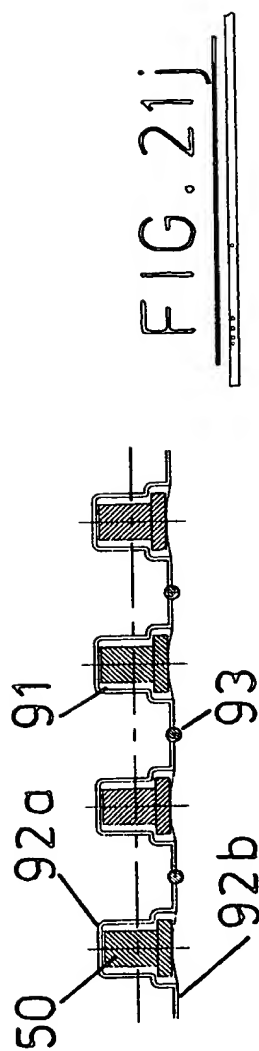


FIG. 20

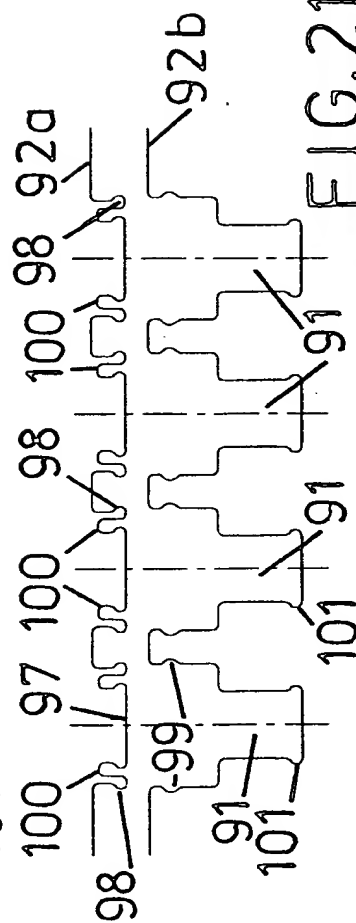
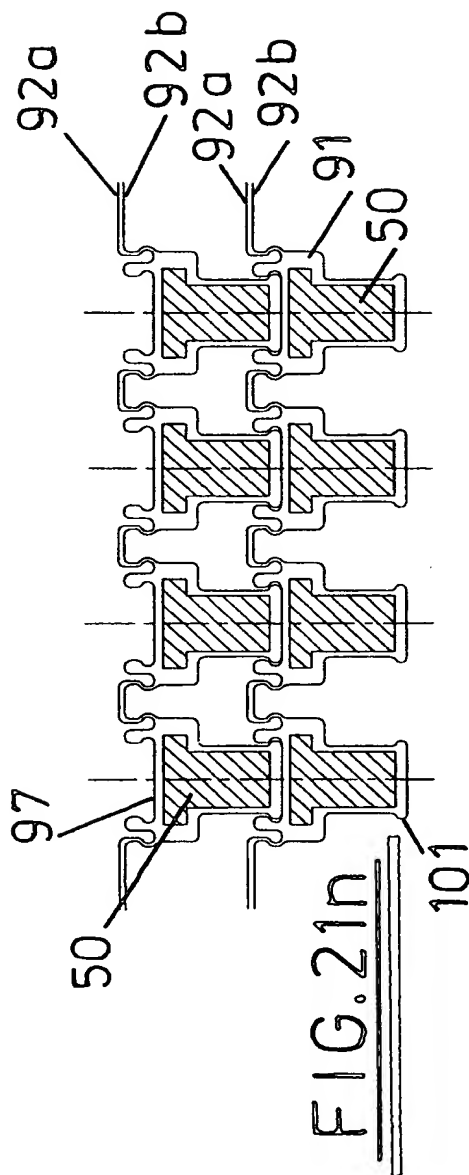


14-57



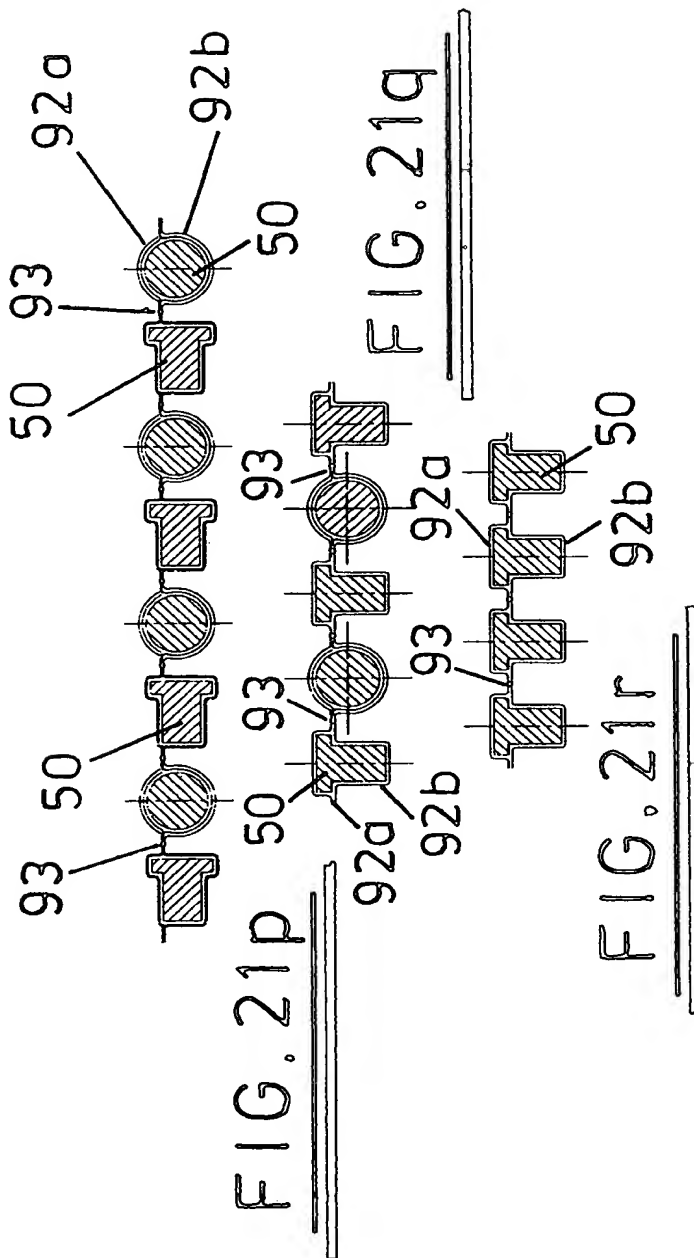


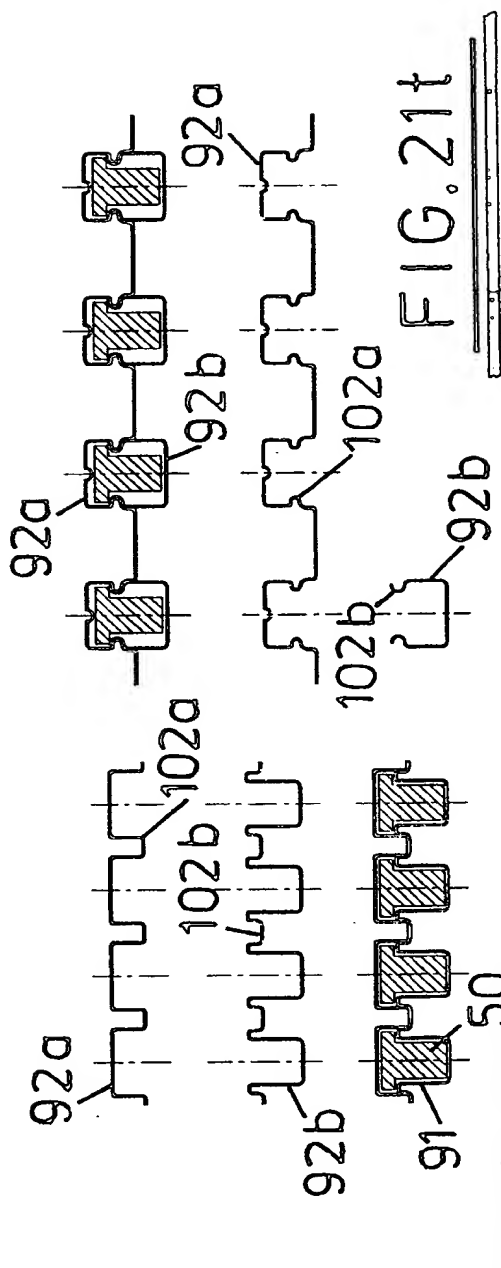
16-57



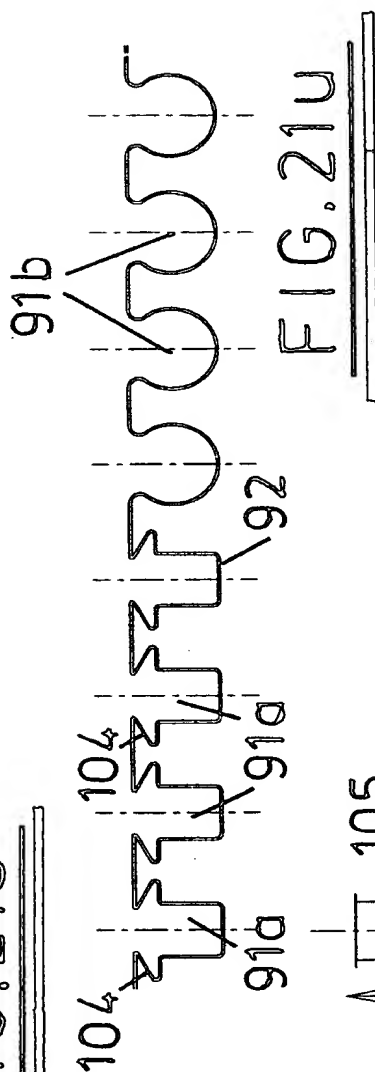


17-57





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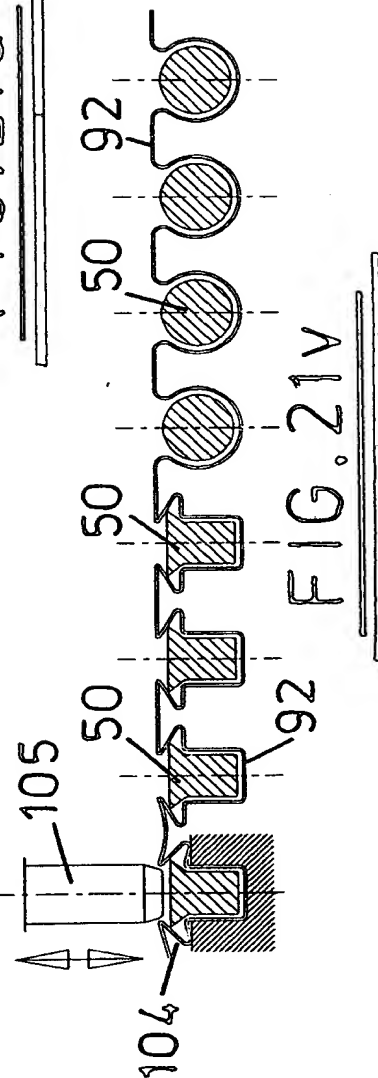
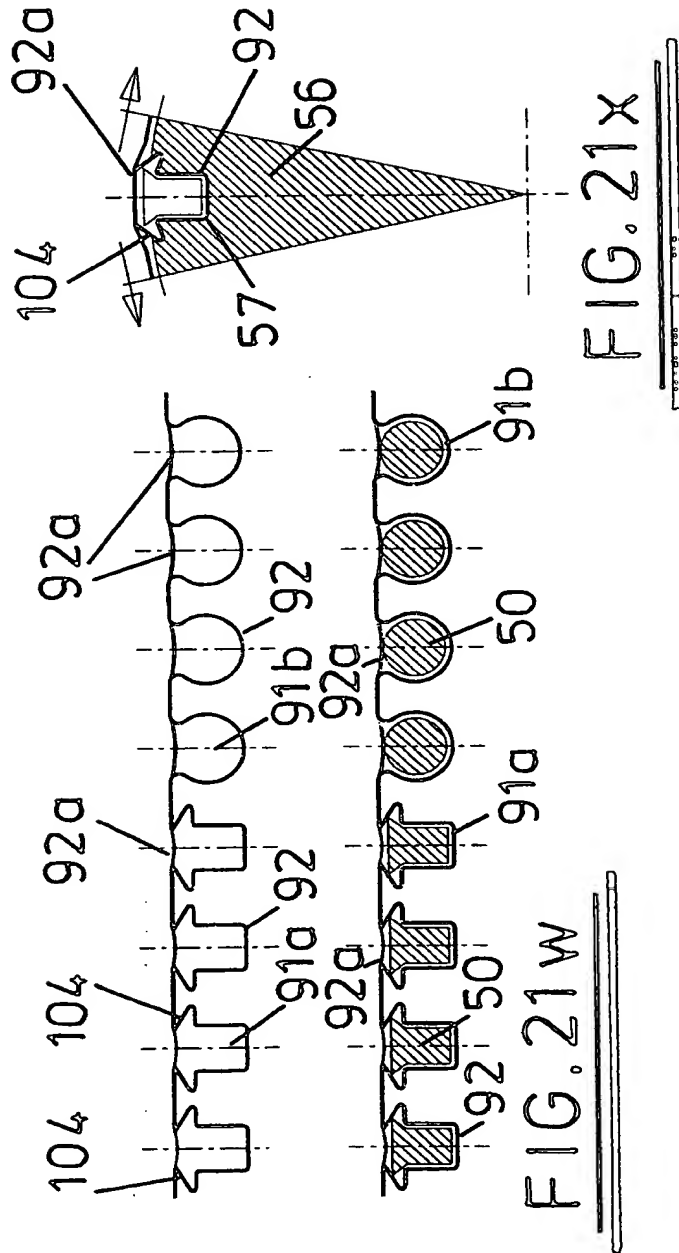
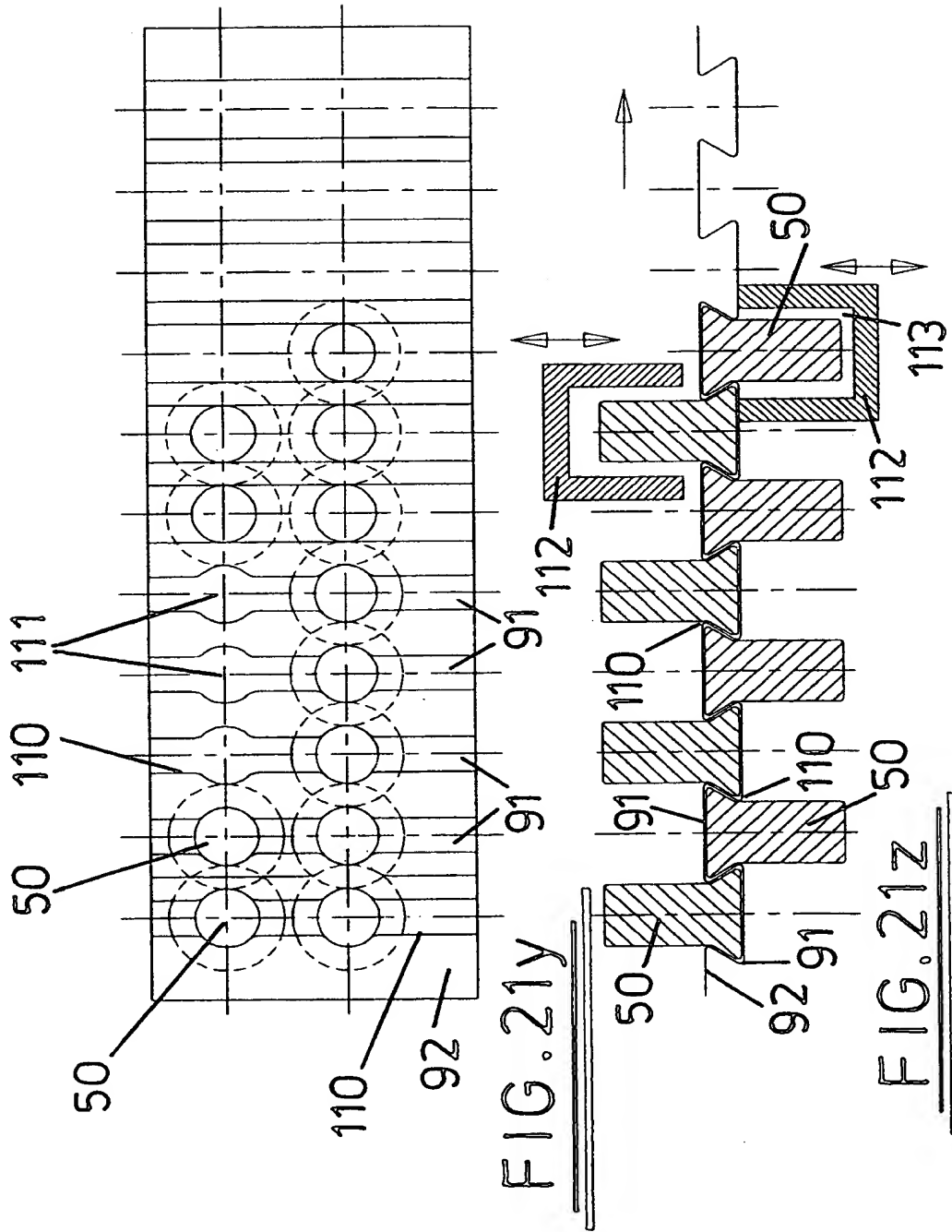


Fig. 21v

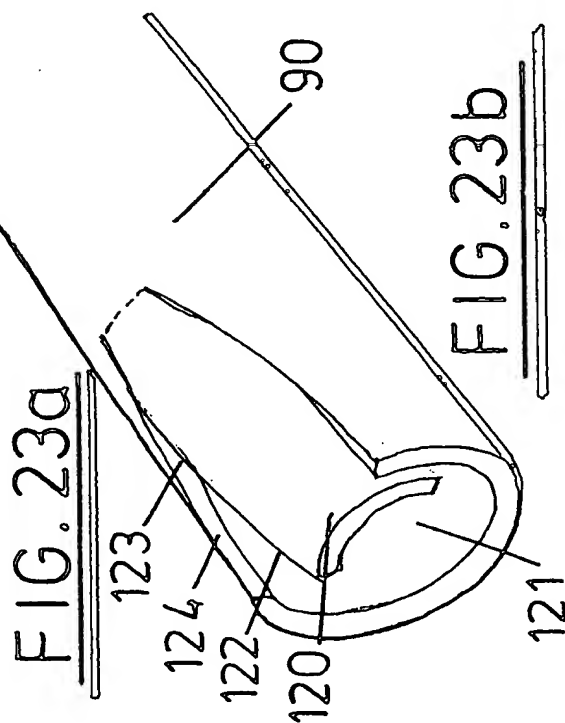
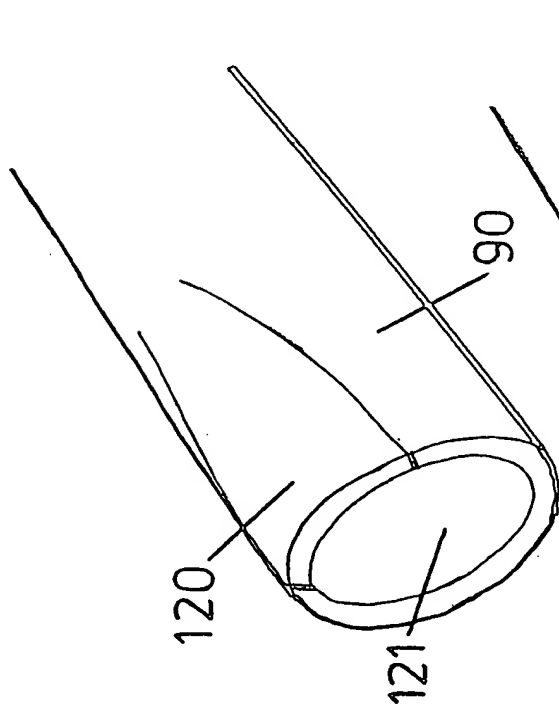
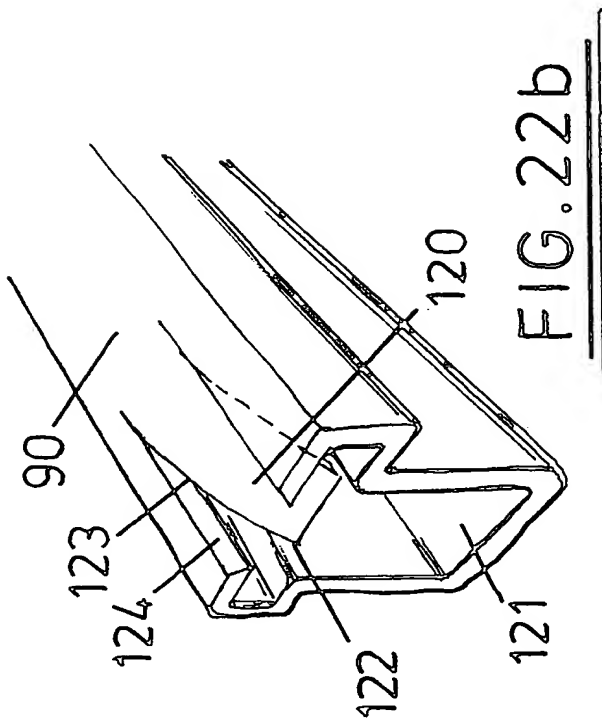
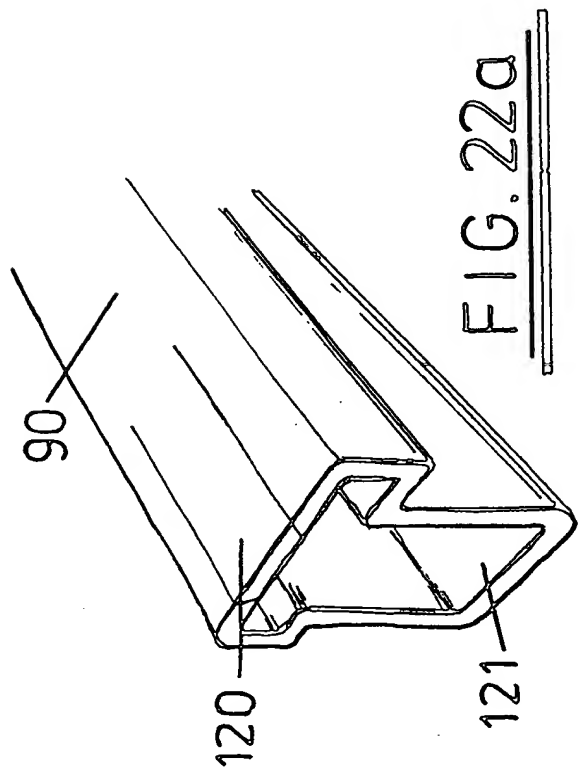
19-57

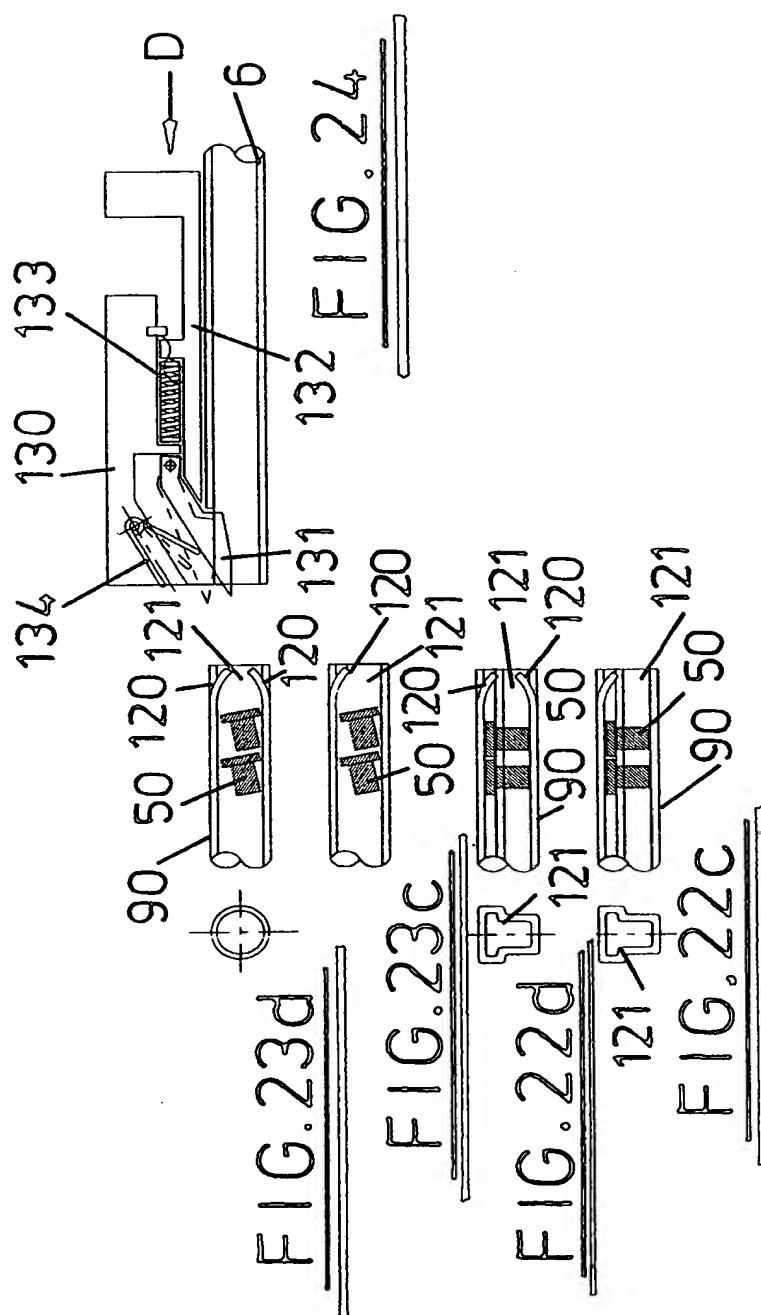


20-57



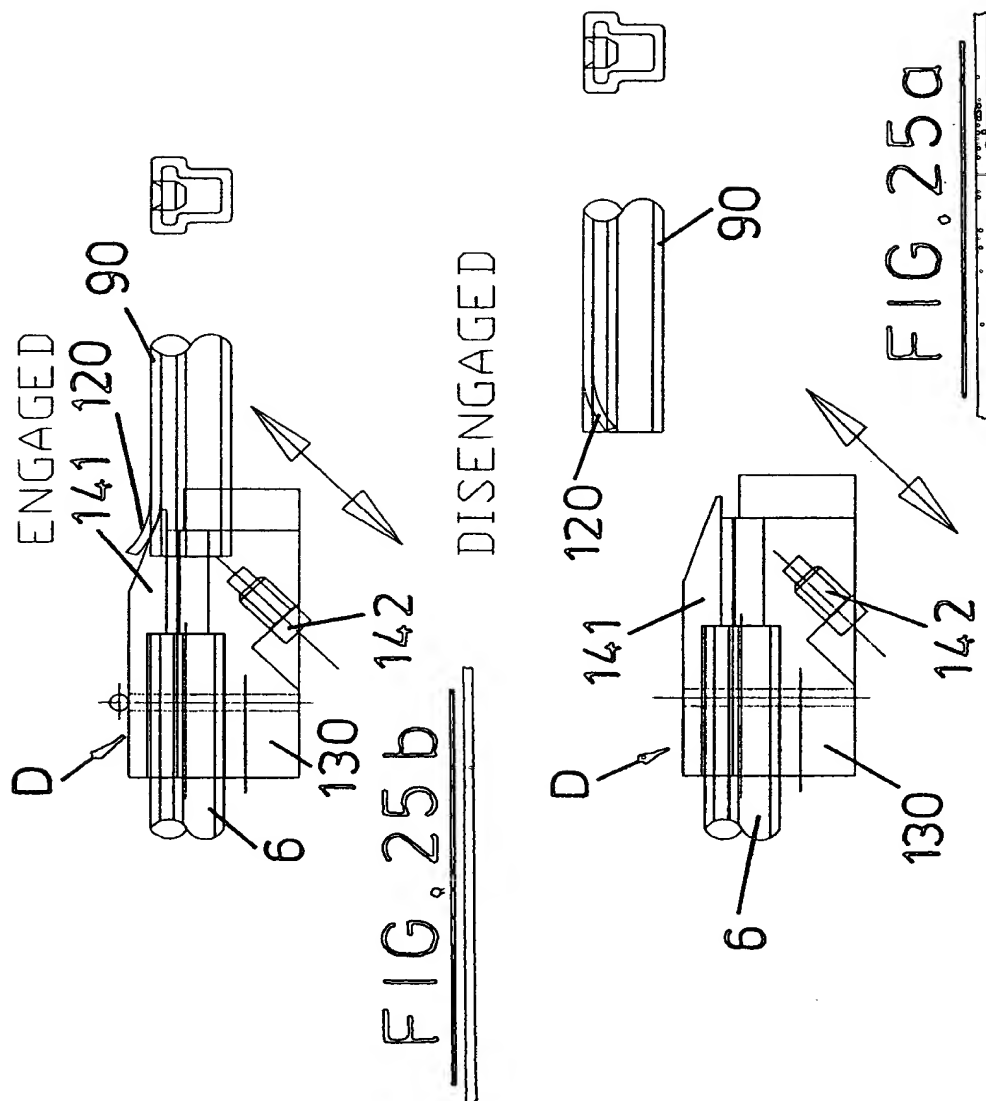
21-57



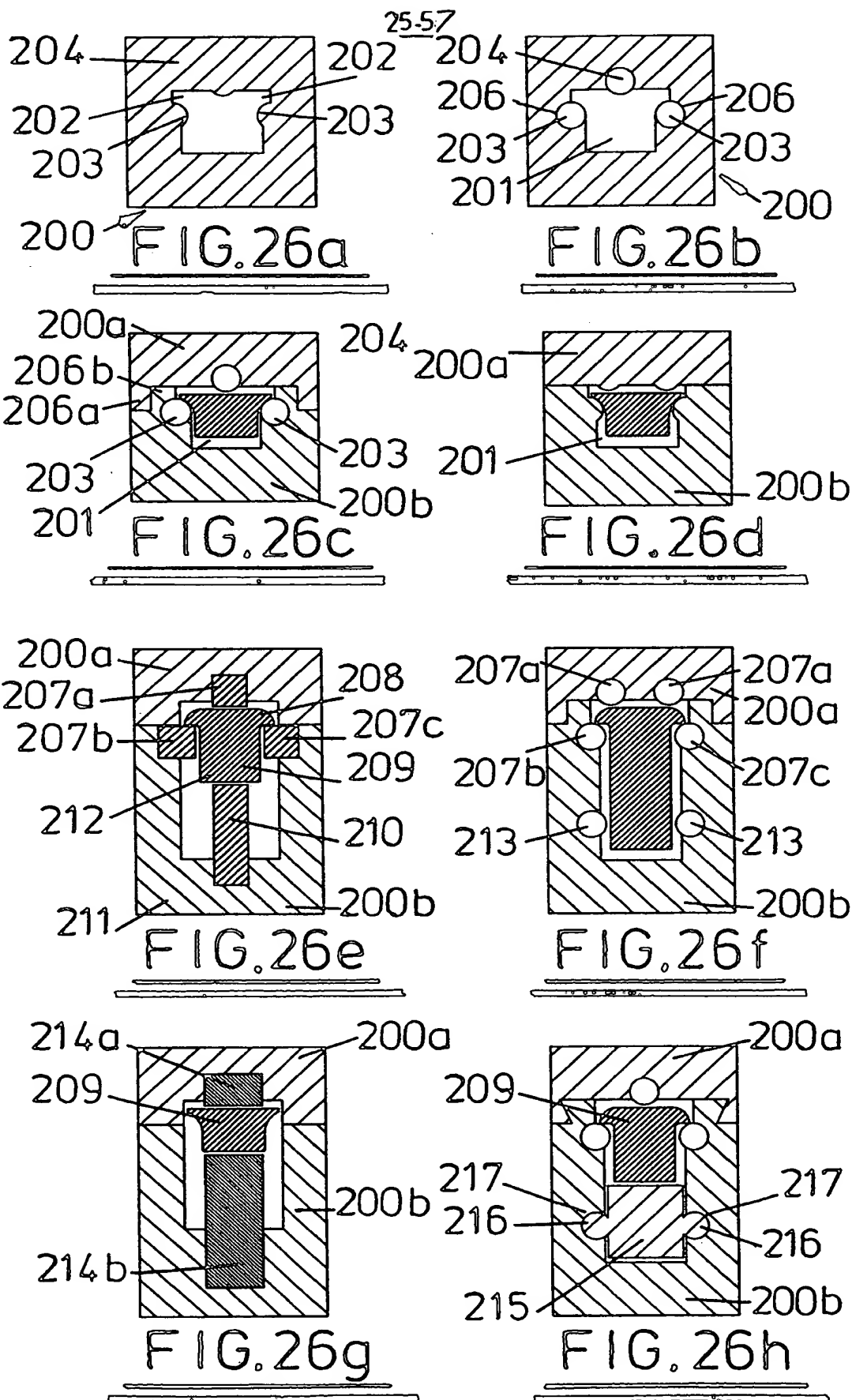




24-57







26-57

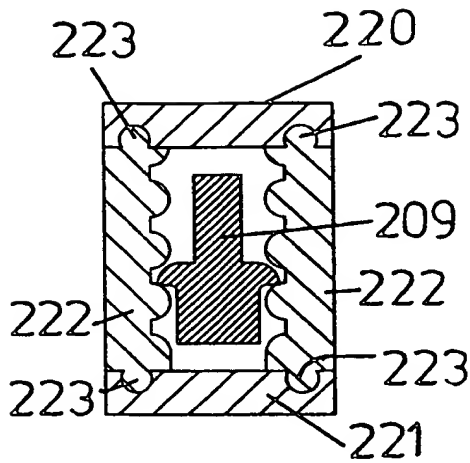


FIG. 26i

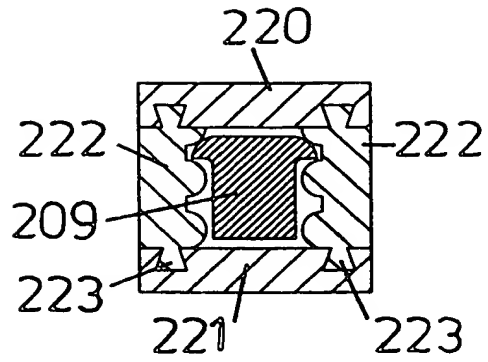


FIG. 26j

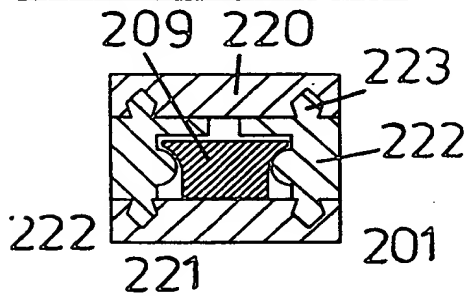


FIG. 26k

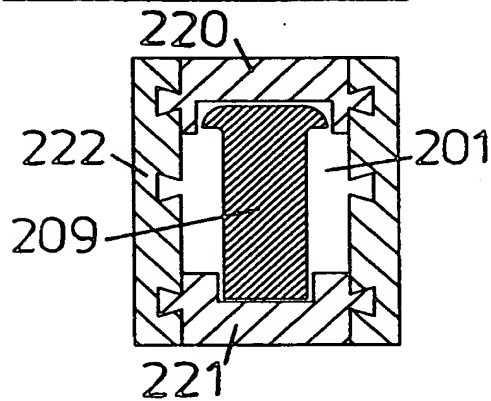


FIG. 26l

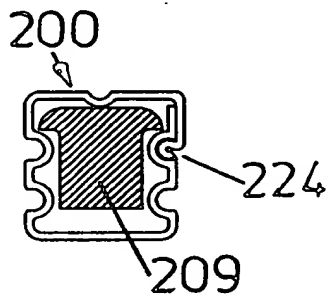


FIG. 26m

27:57

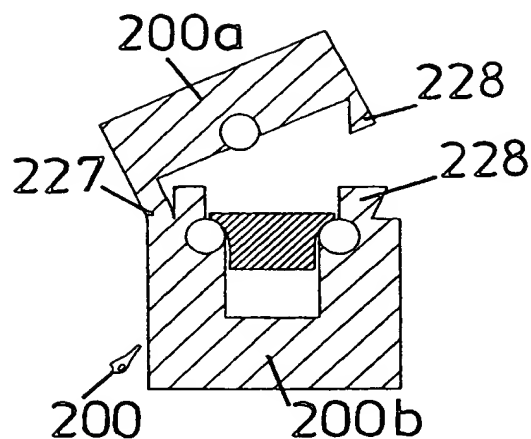


FIG. 26n

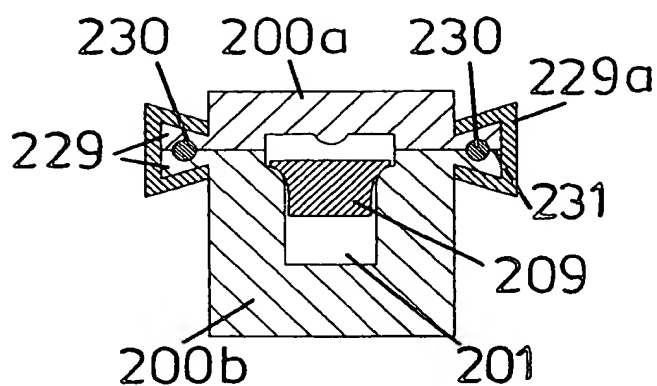


FIG. 26o

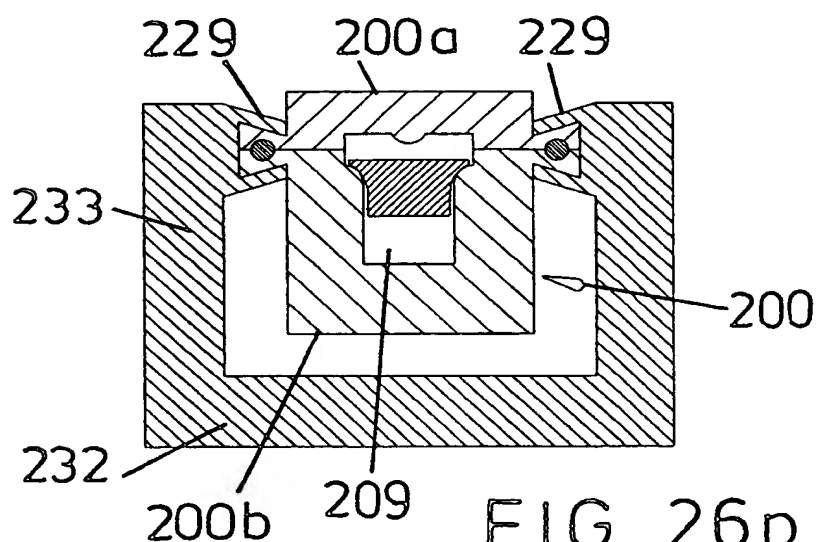


FIG. 26p

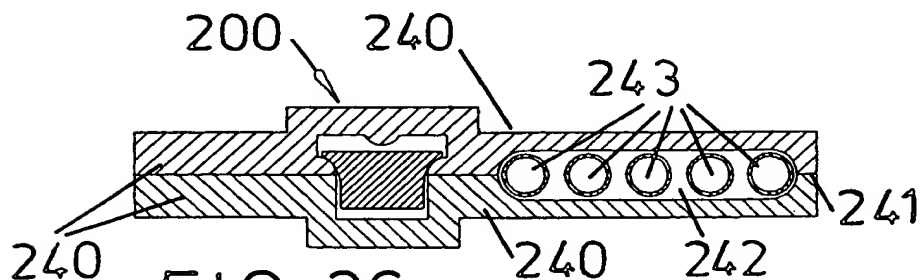


FIG. 26q

2857

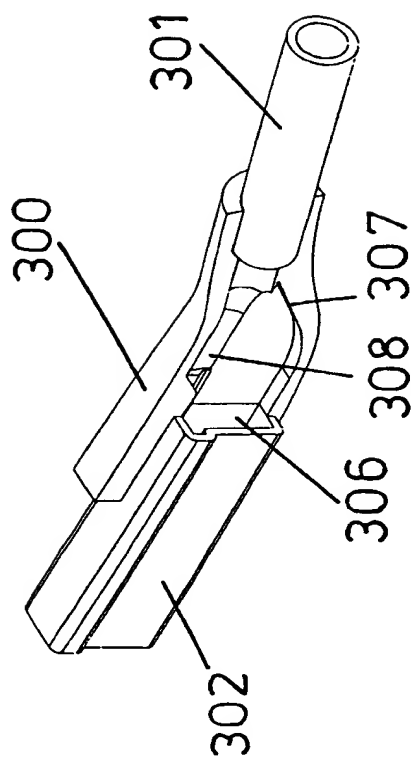


FIG. 27a

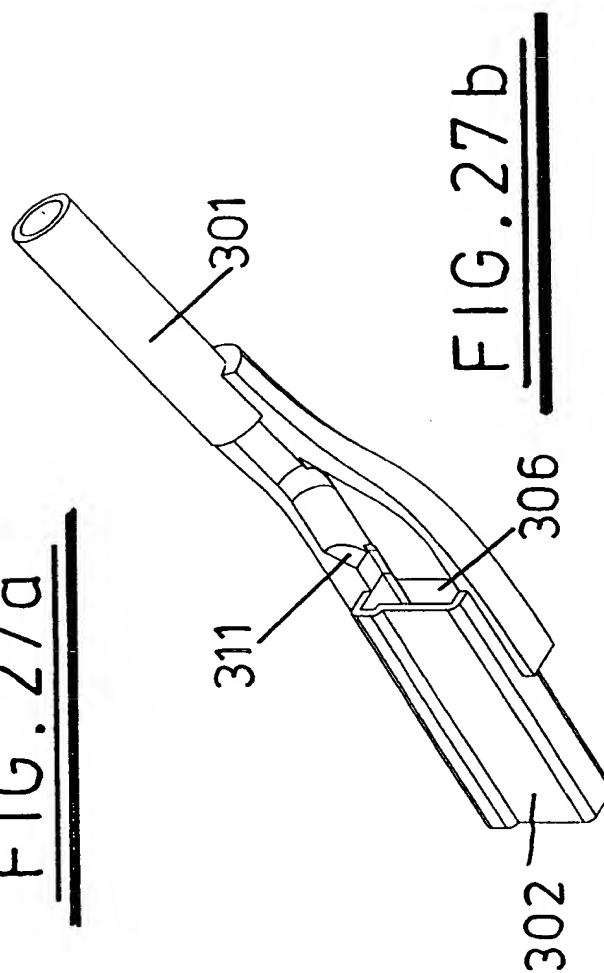
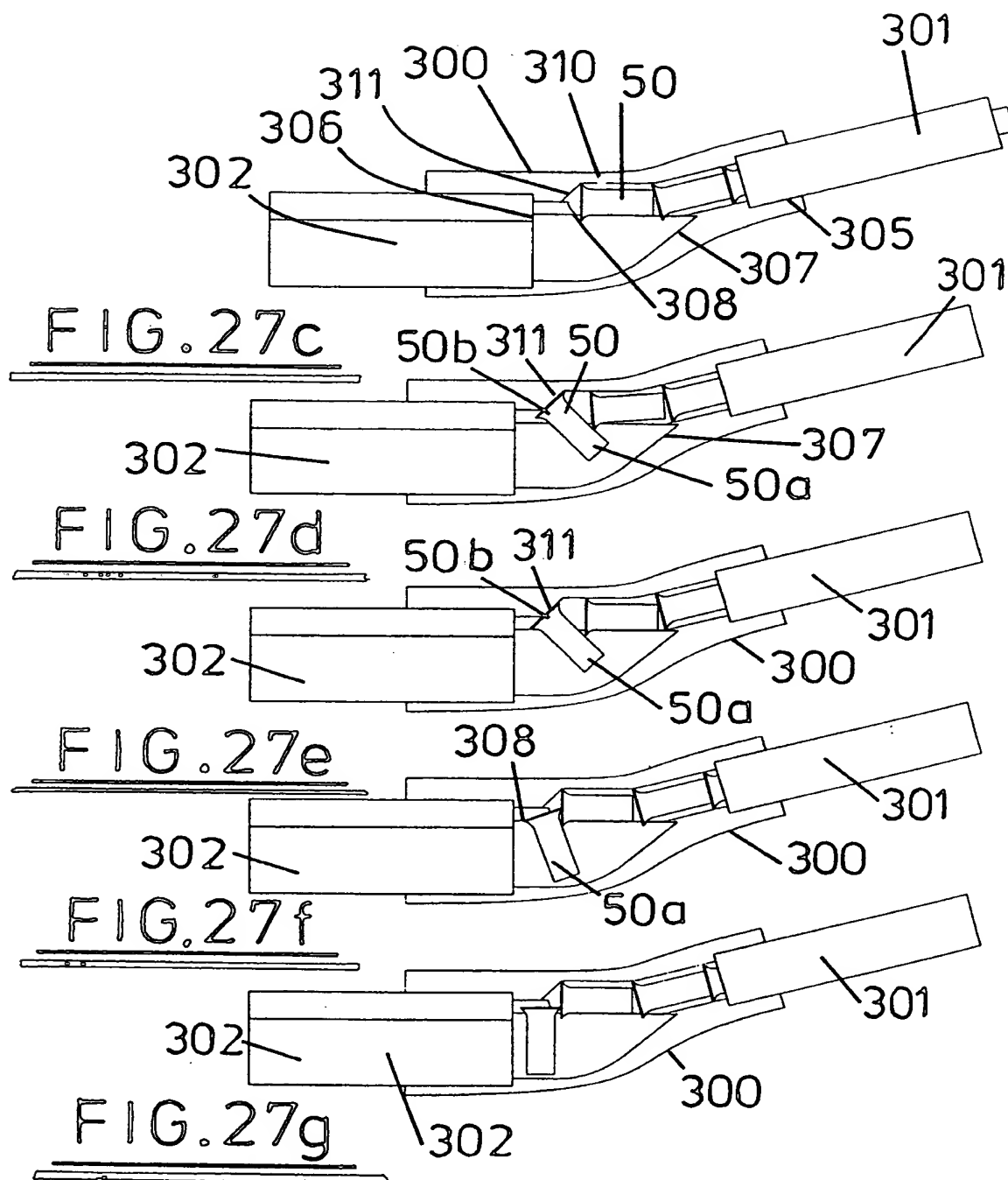


FIG. 27b

29-57



30-57

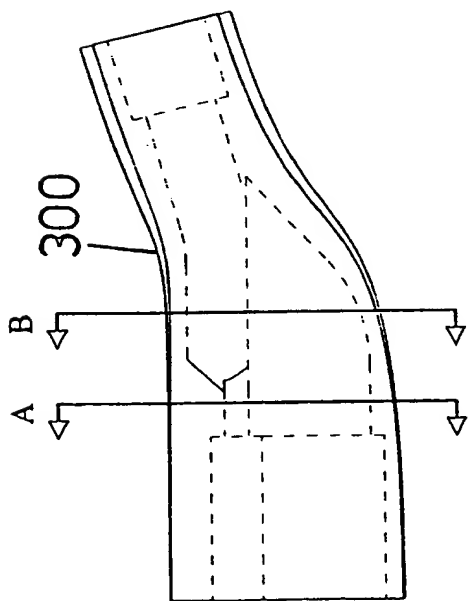


FIG. 27h

Air

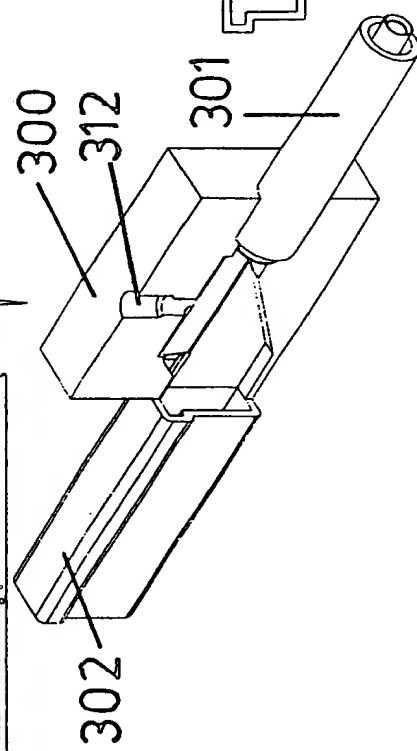


FIG. 27j

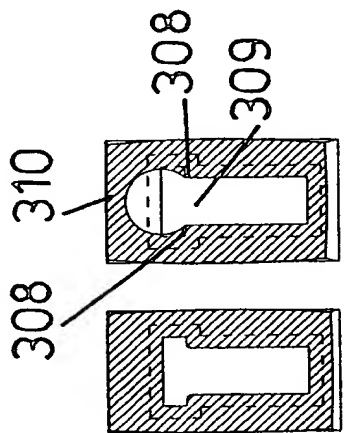


FIG. 27i

Section A-A Section B-B

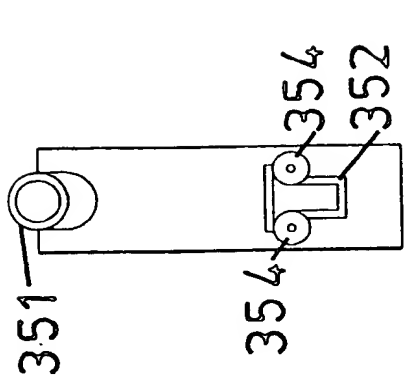


FIG. 28b

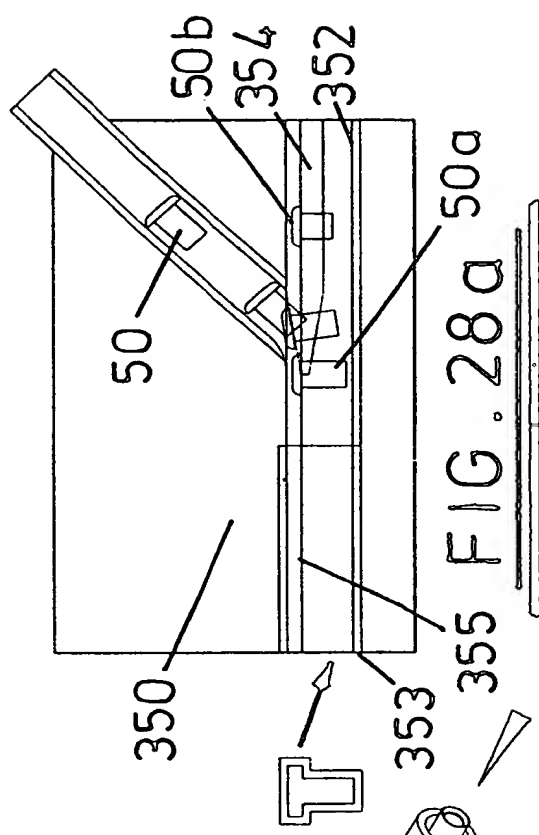


FIG. 28a

31-57

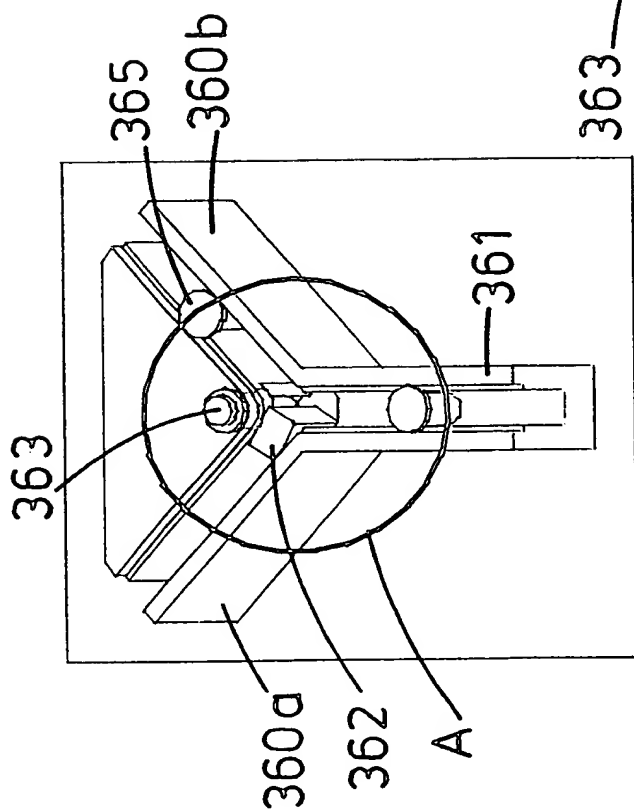


FIG. 29

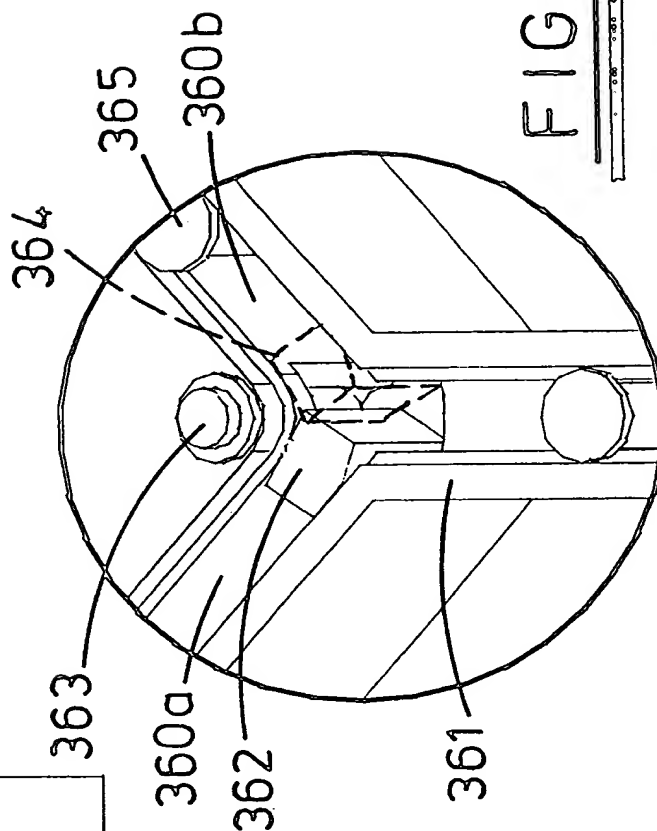
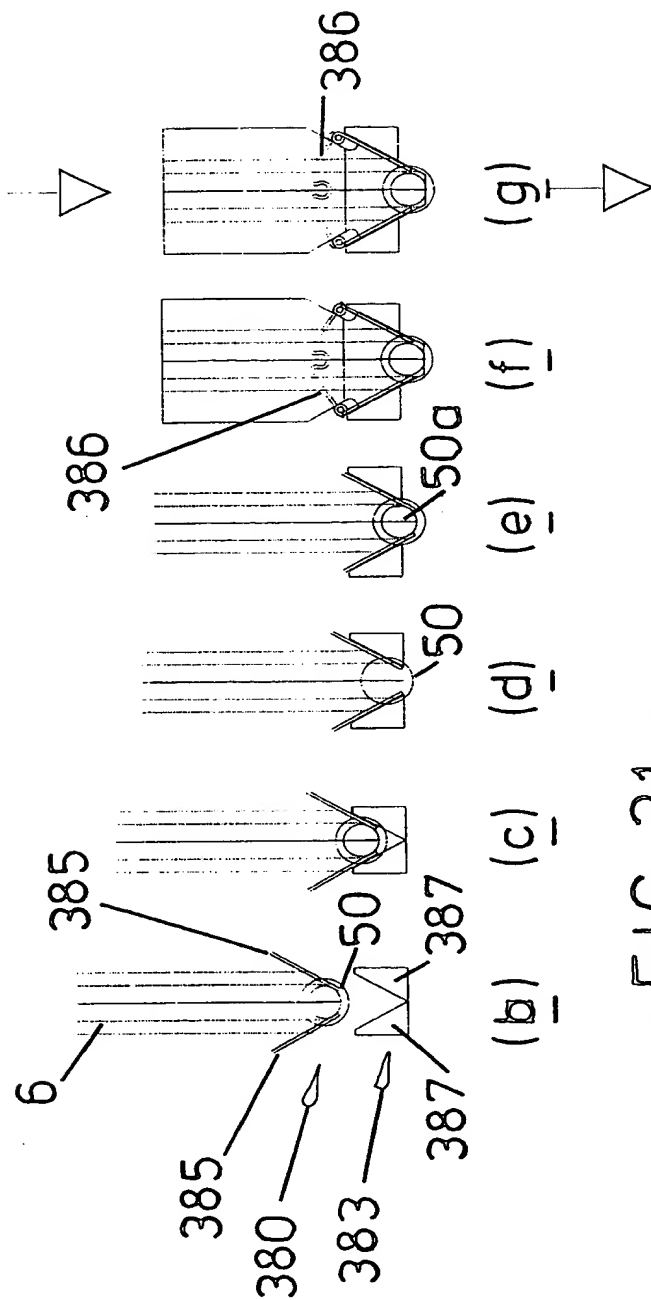


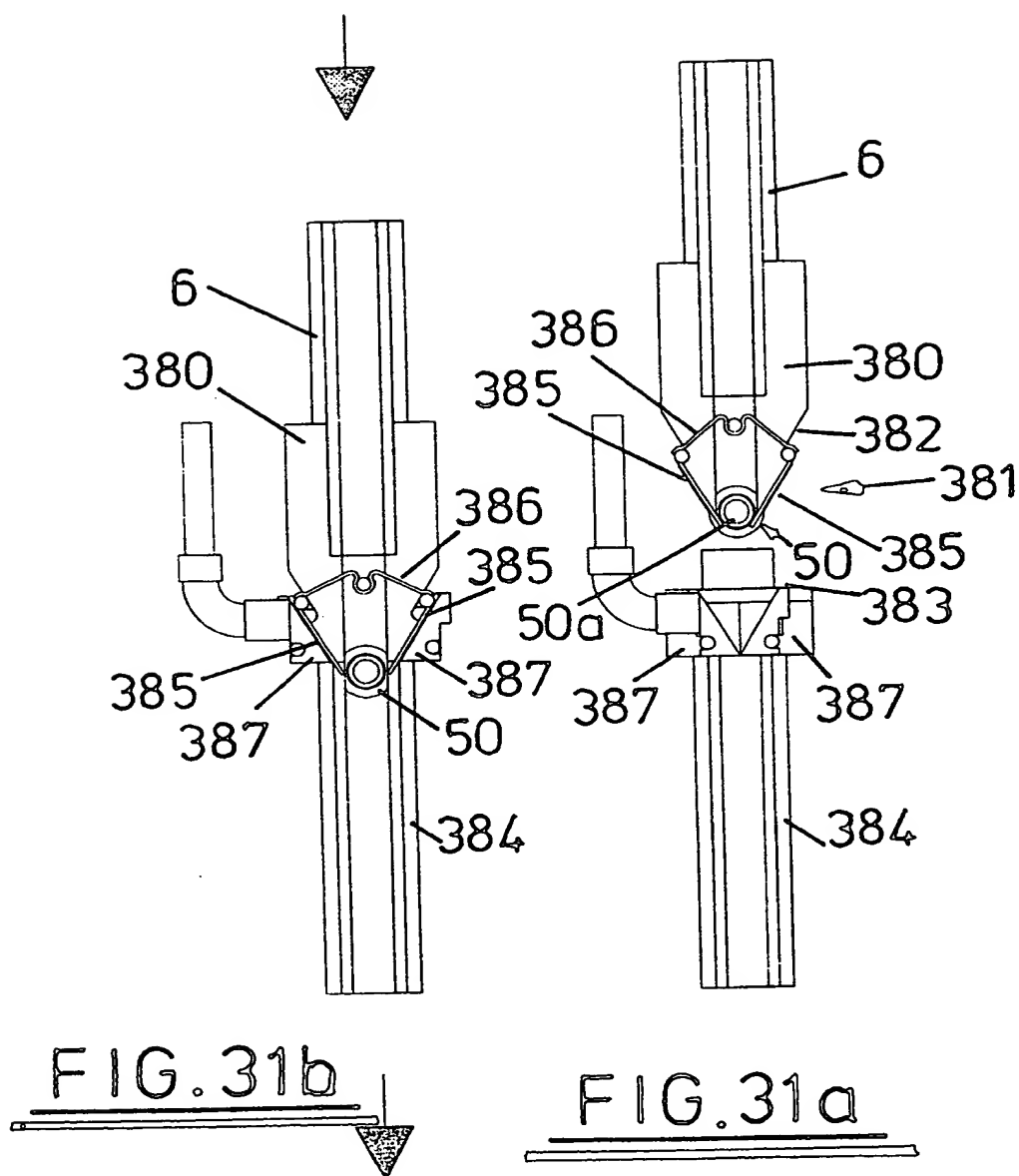
FIG. 30

32.57





33-57



3457

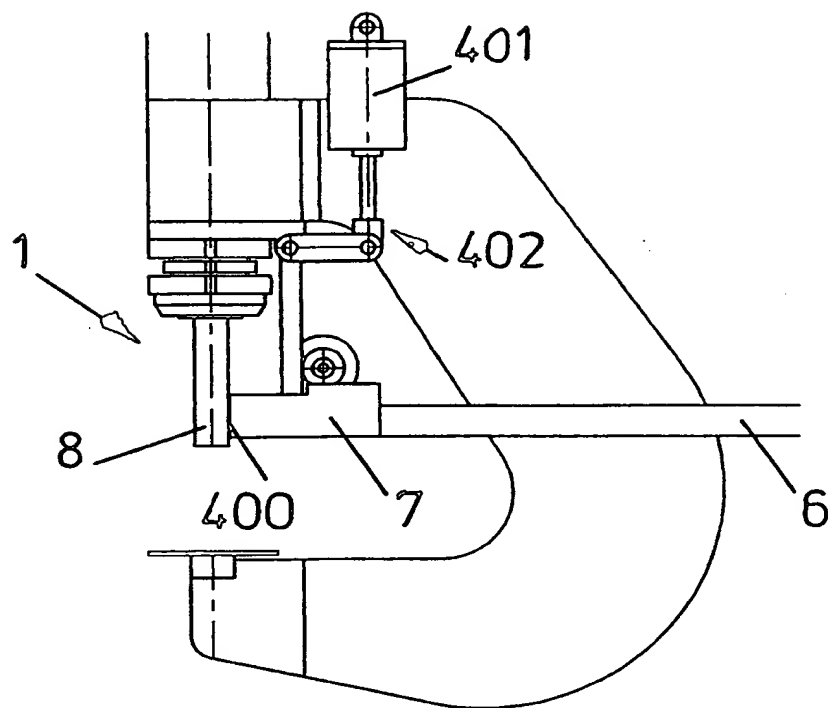


FIG. 32

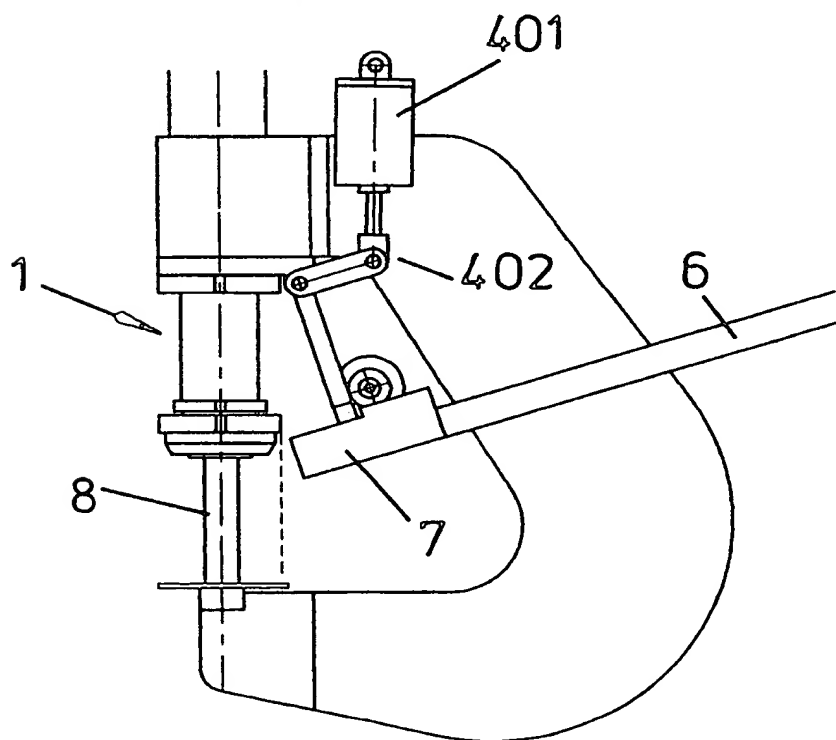


FIG. 33

35-57

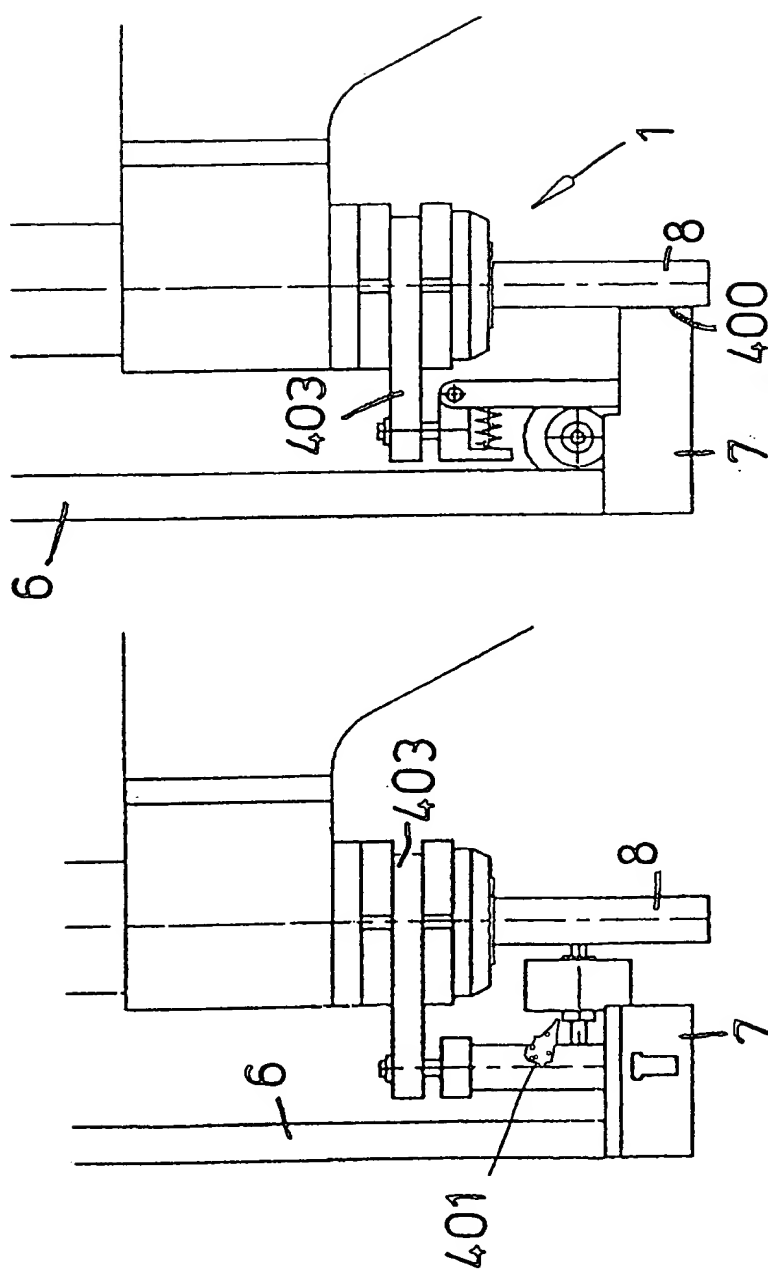


FIG. 34

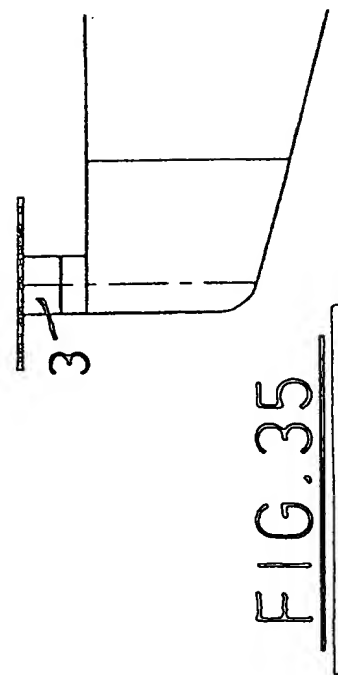
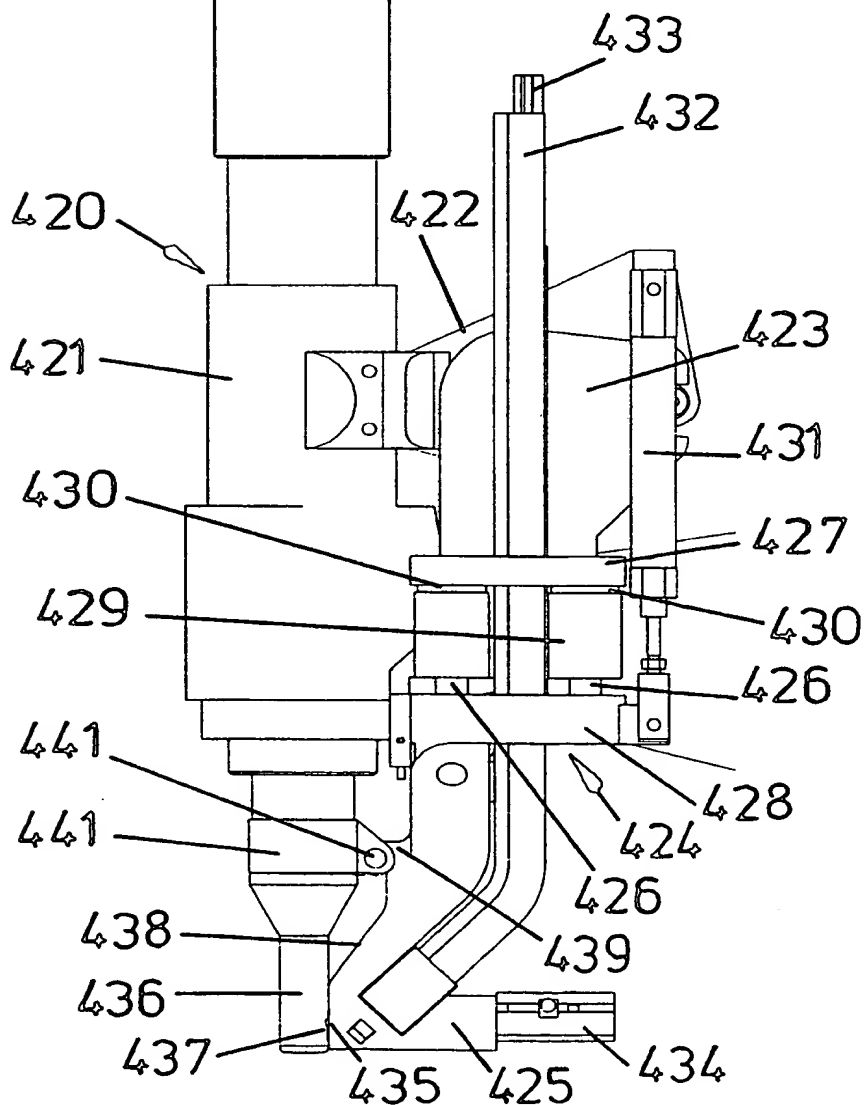


FIG. 35

36-57

FIG. 36a



37-57

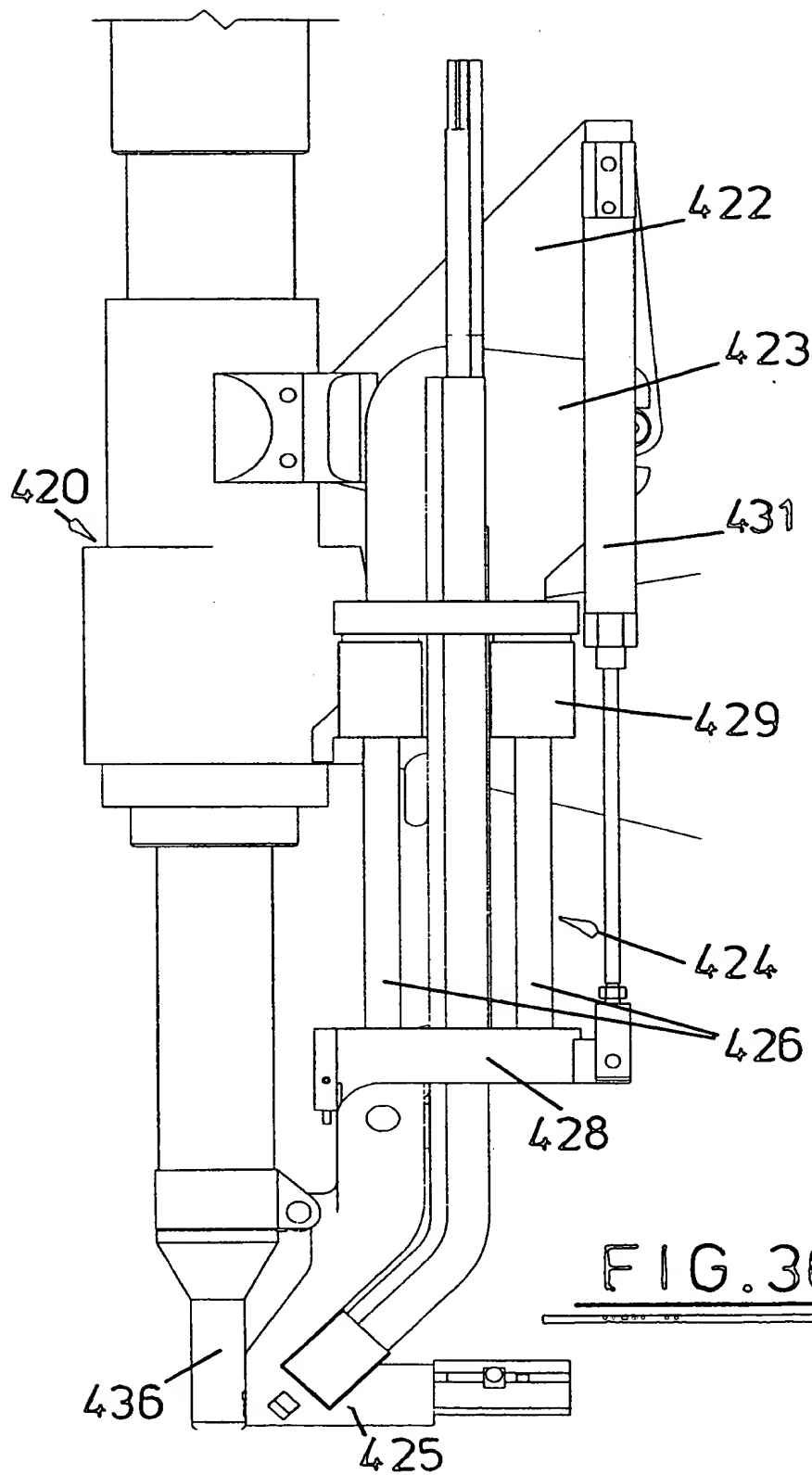


FIG. 36b

38-57

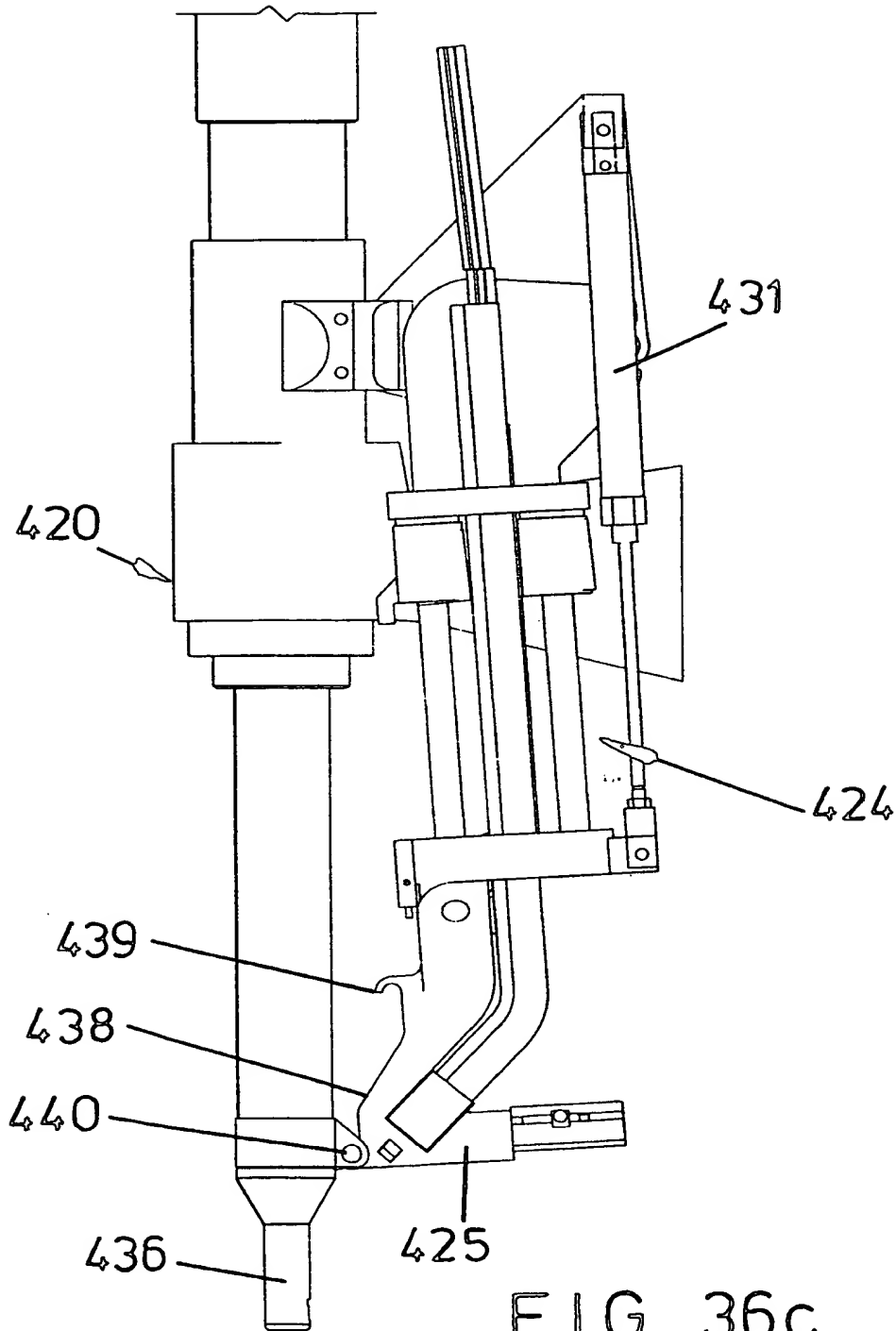
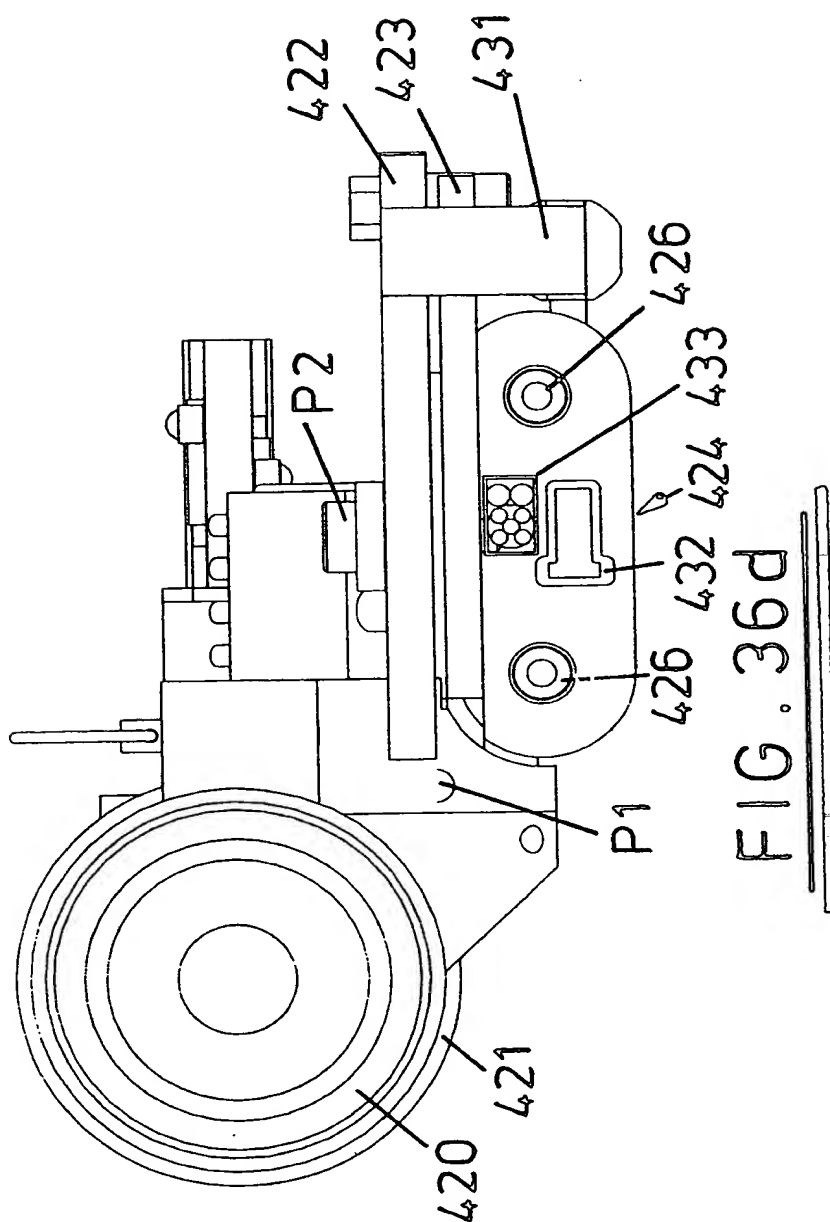


FIG. 36c

39.57



40-57

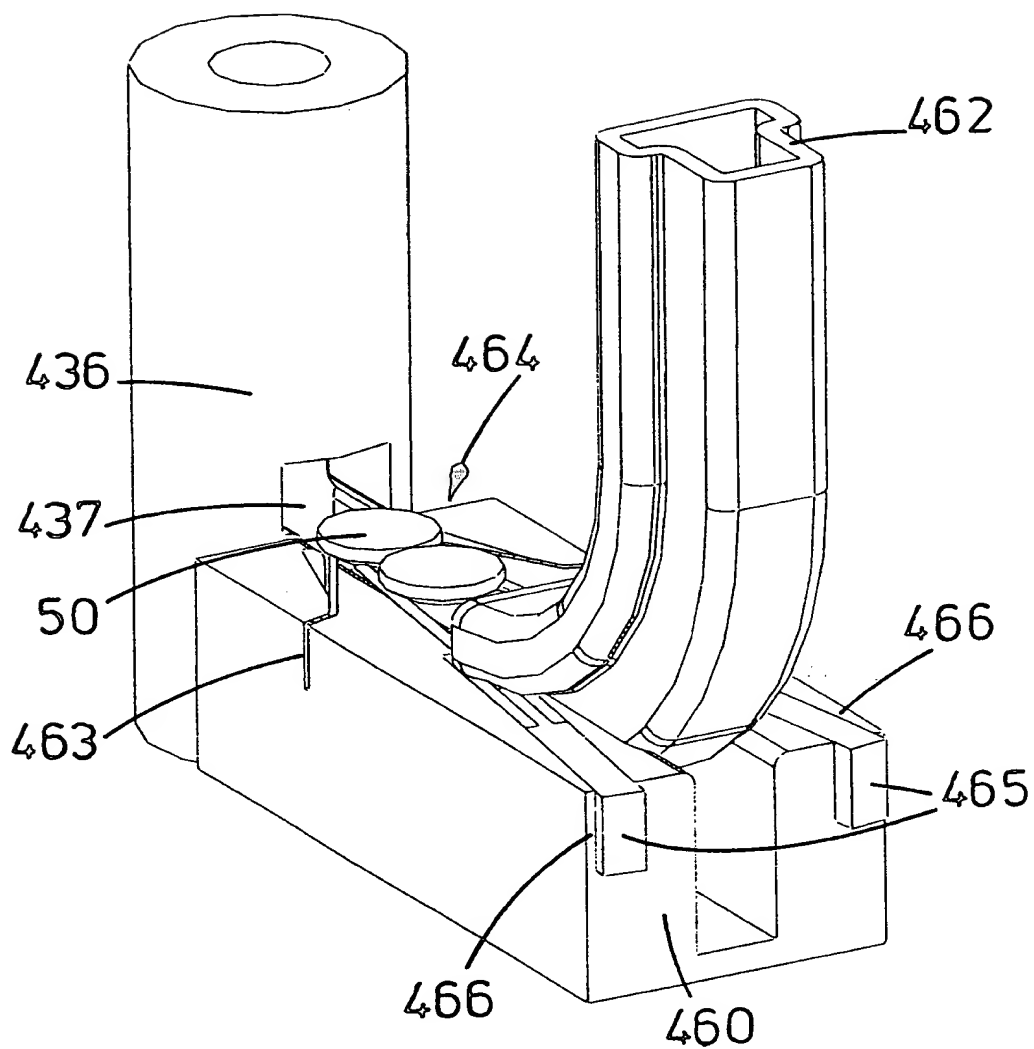


FIG. 37a



41-57

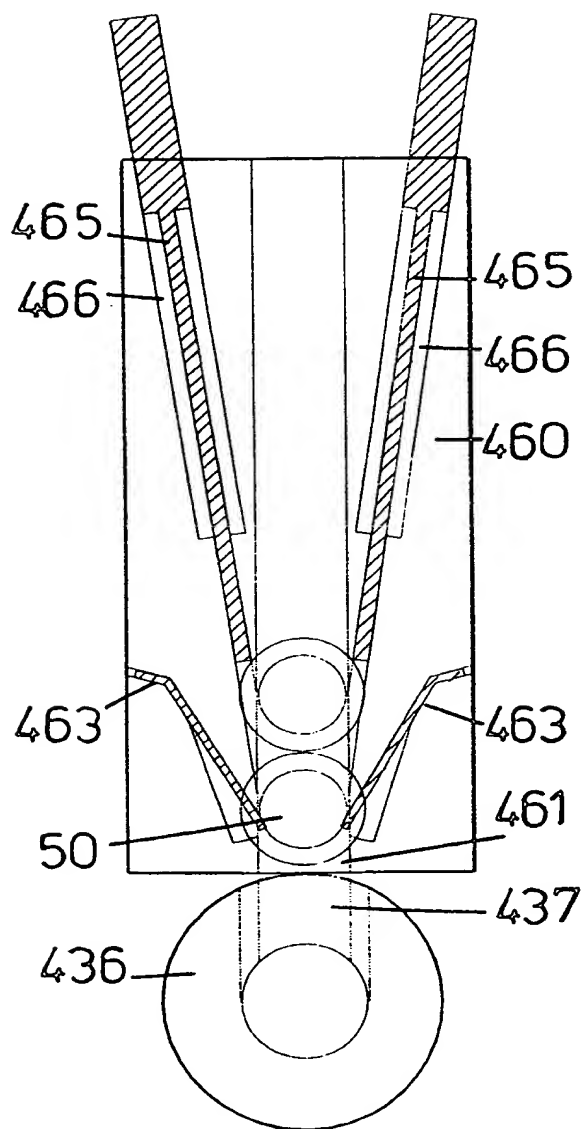


FIG. 37b

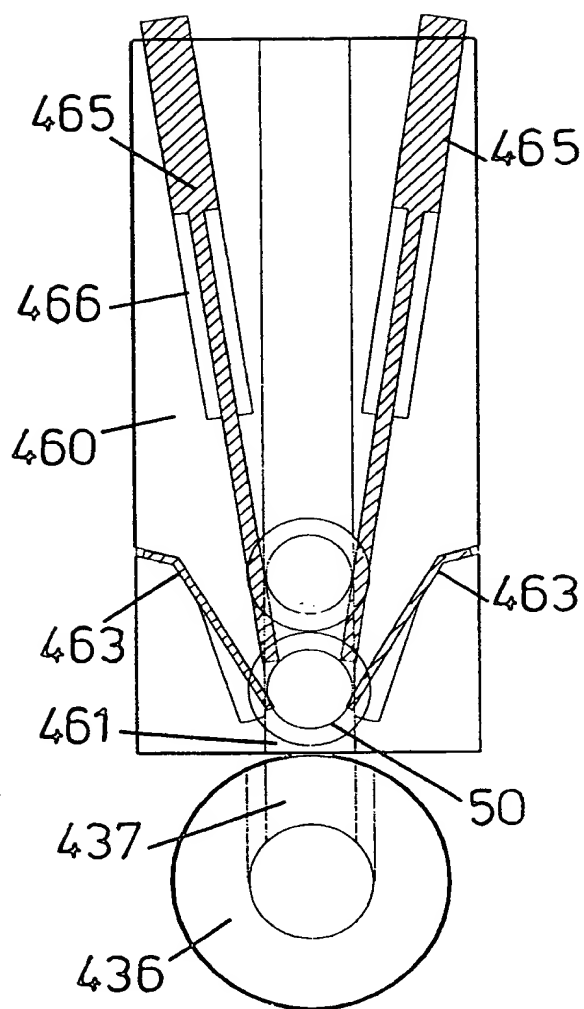


FIG. 37c

42.57

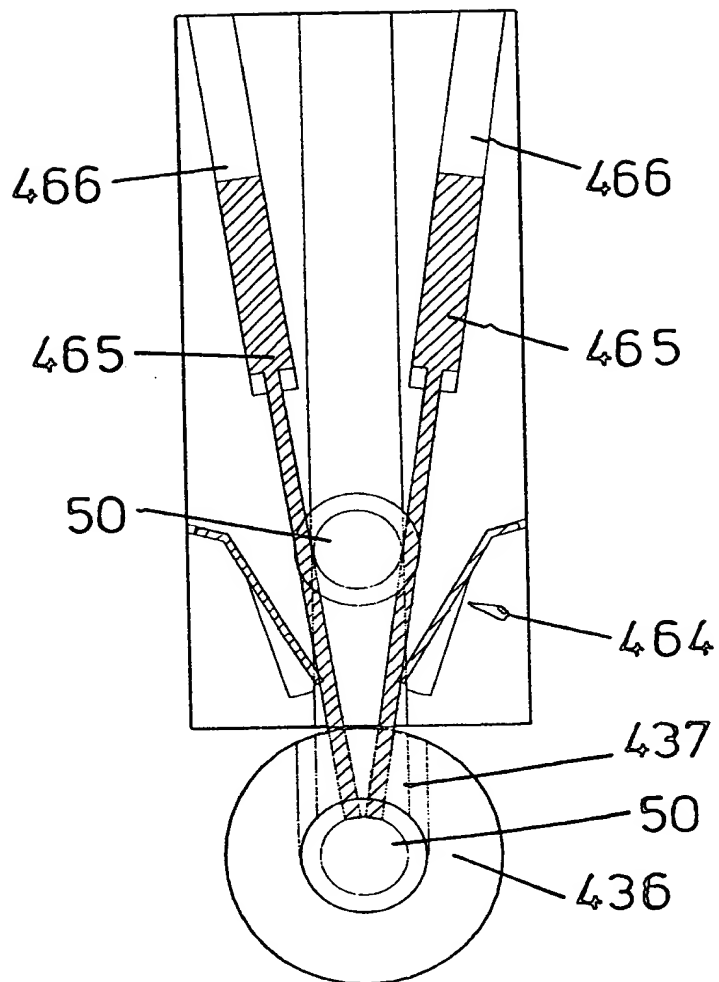
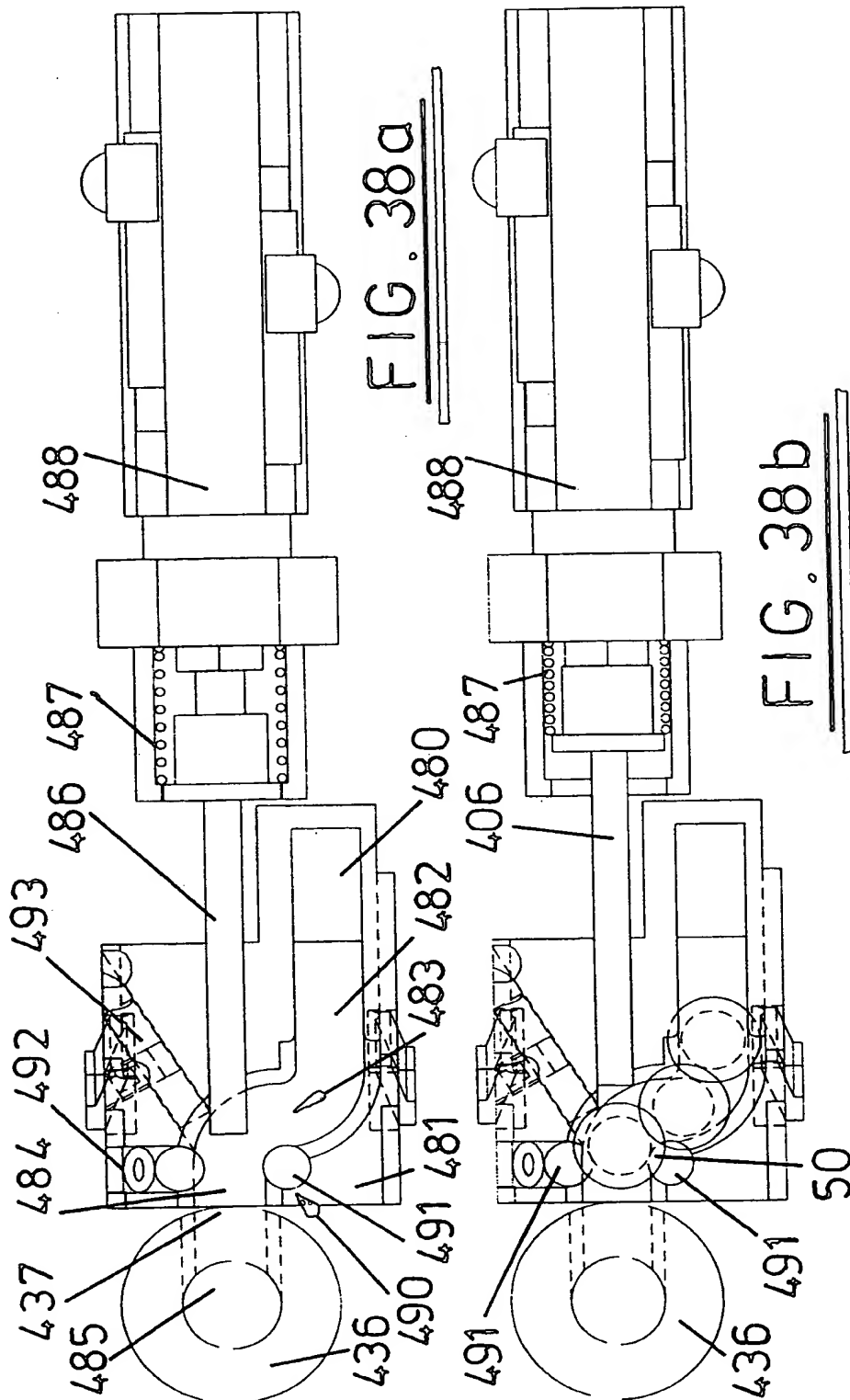
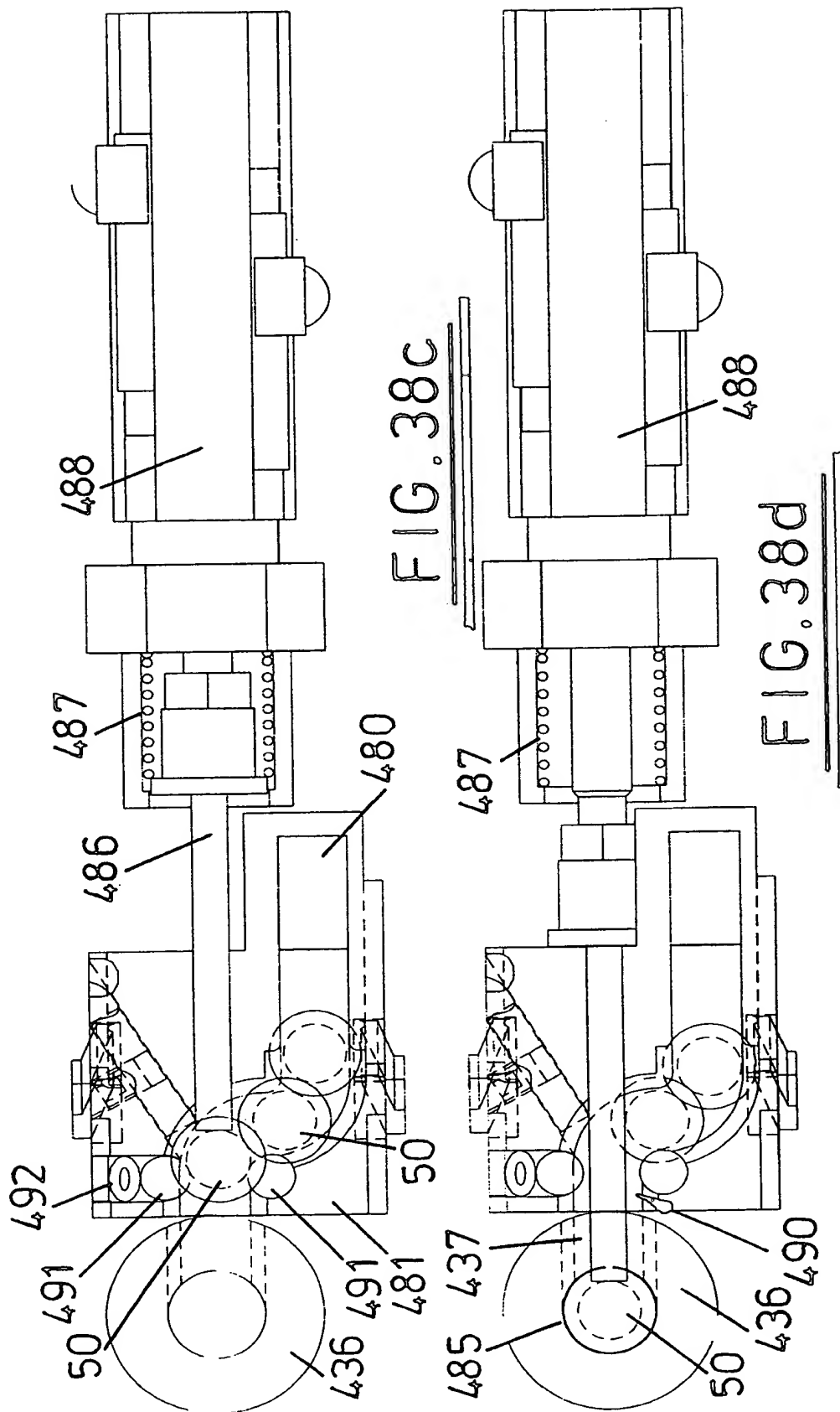


FIG. 37d

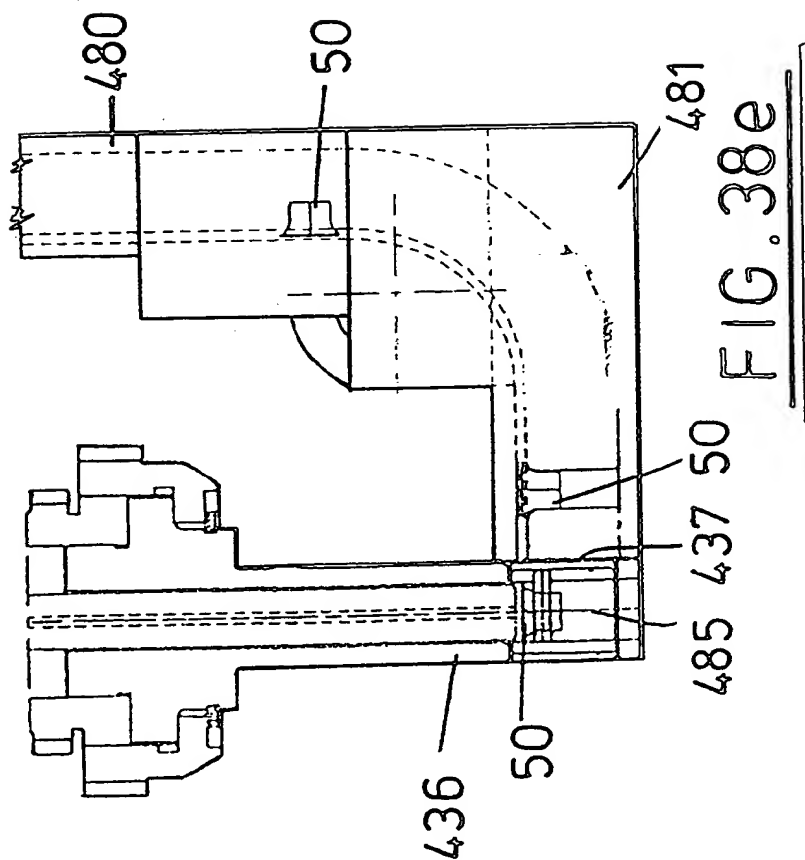
43-57



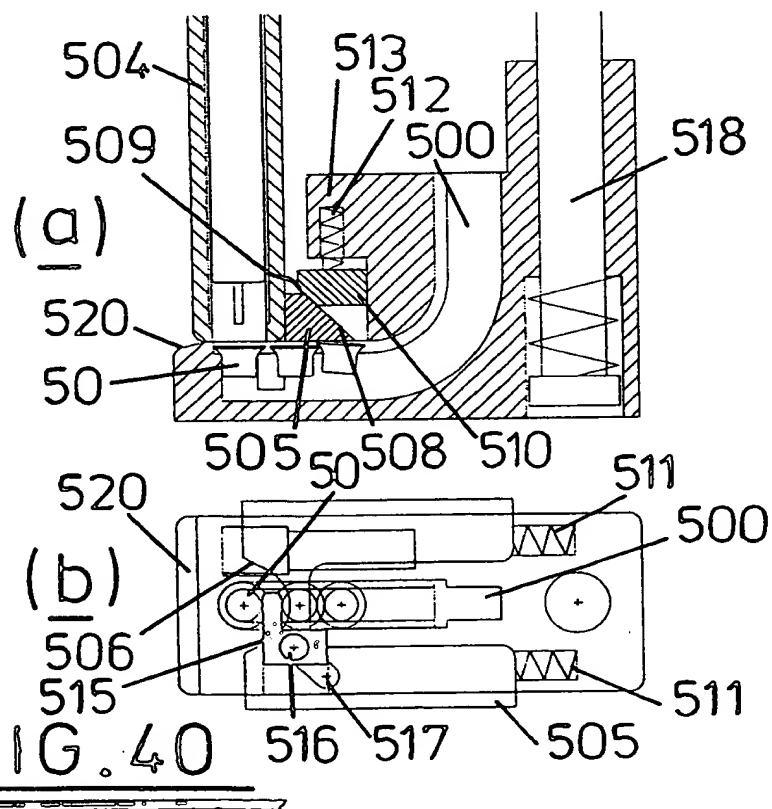
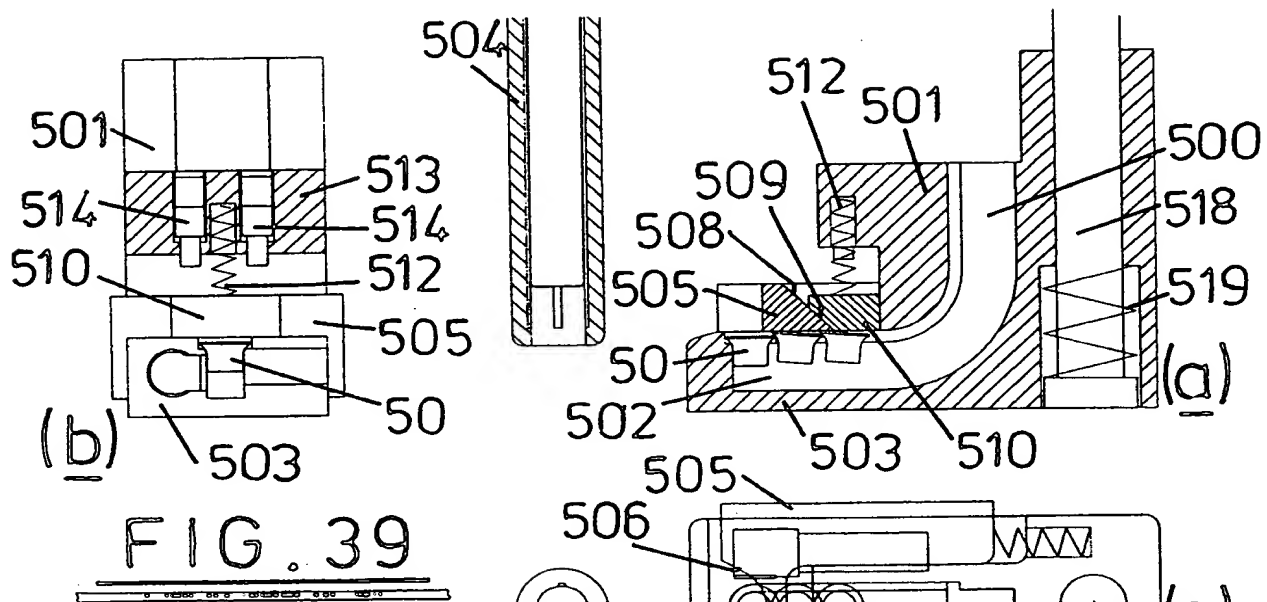
44-57



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46-57



47-57

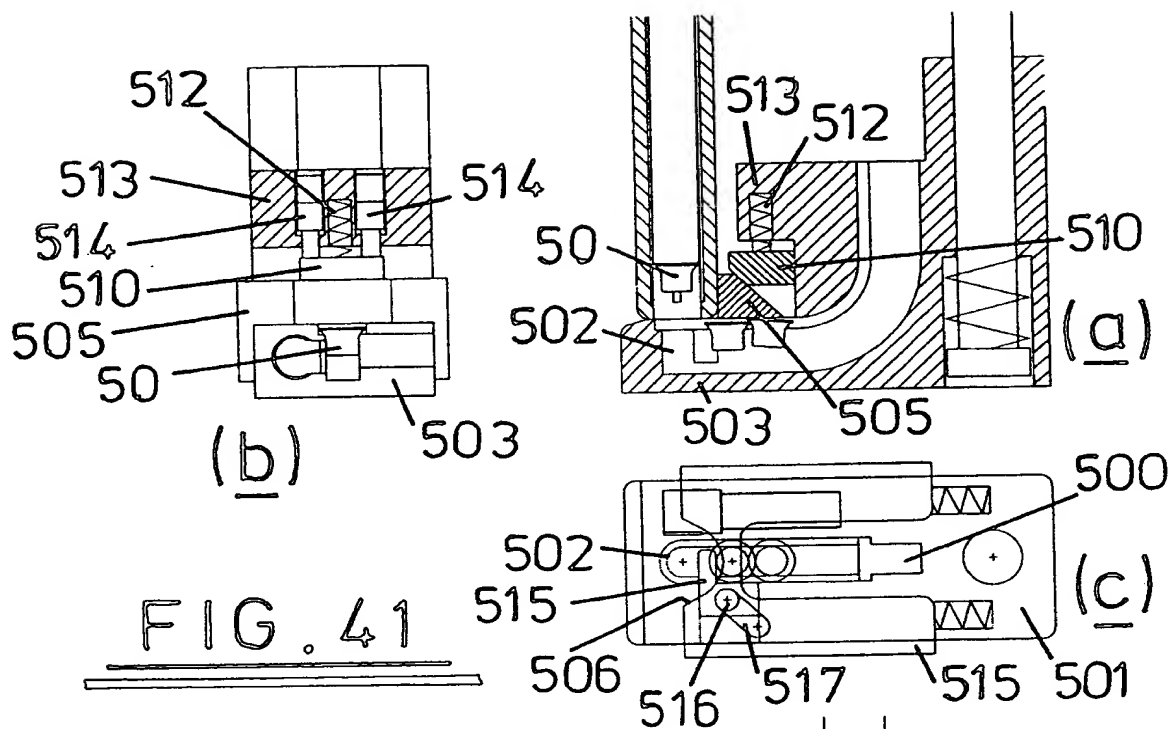


FIG. 41

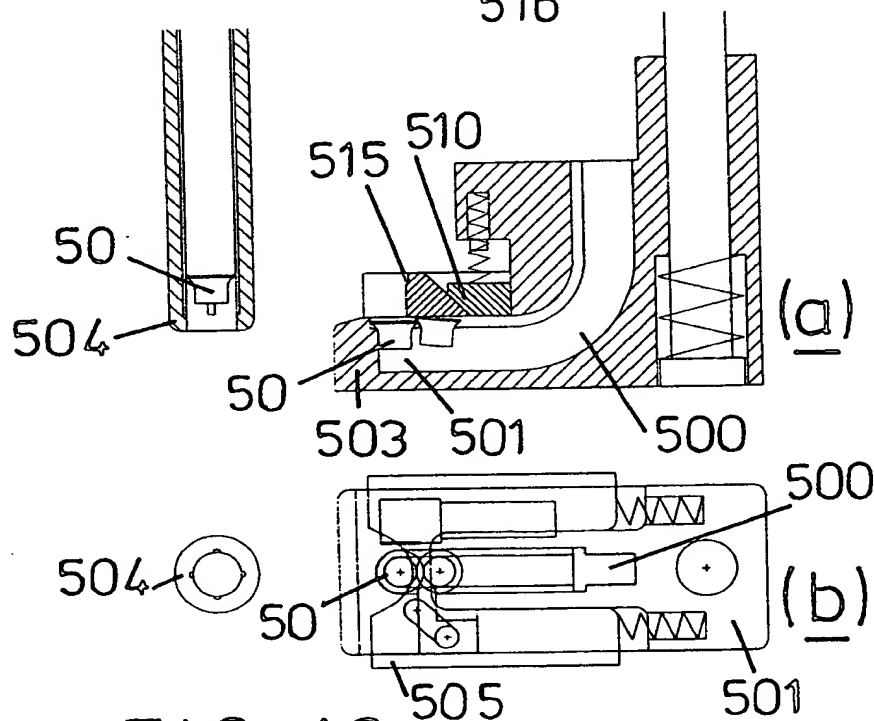


FIG. 42

48.57

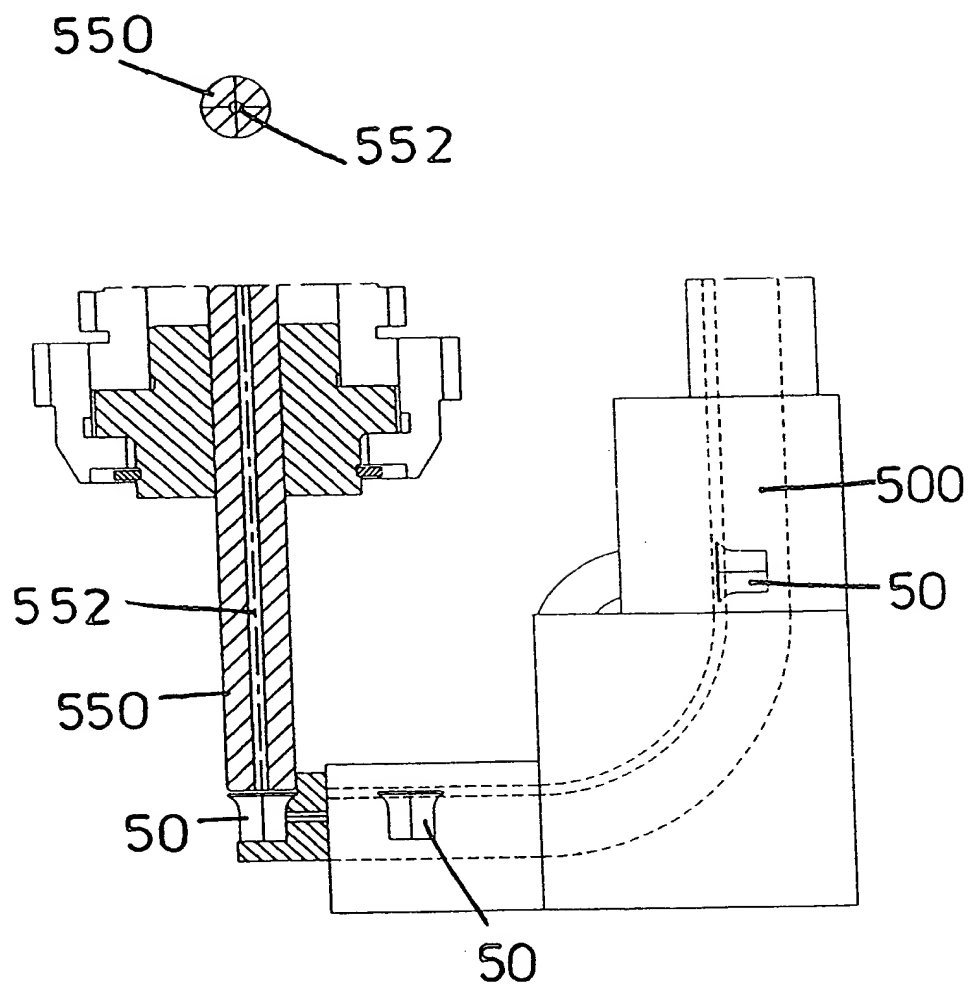
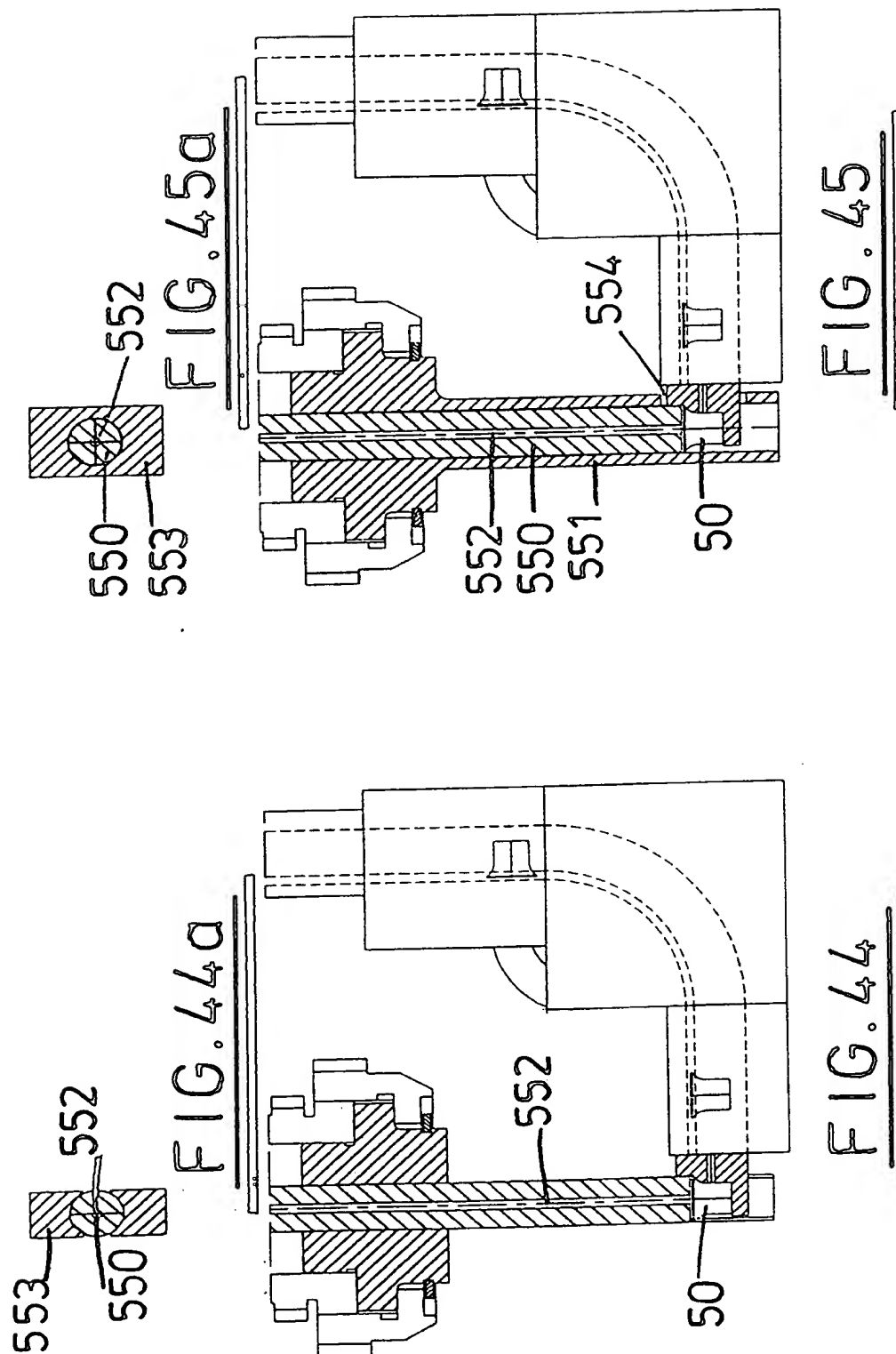
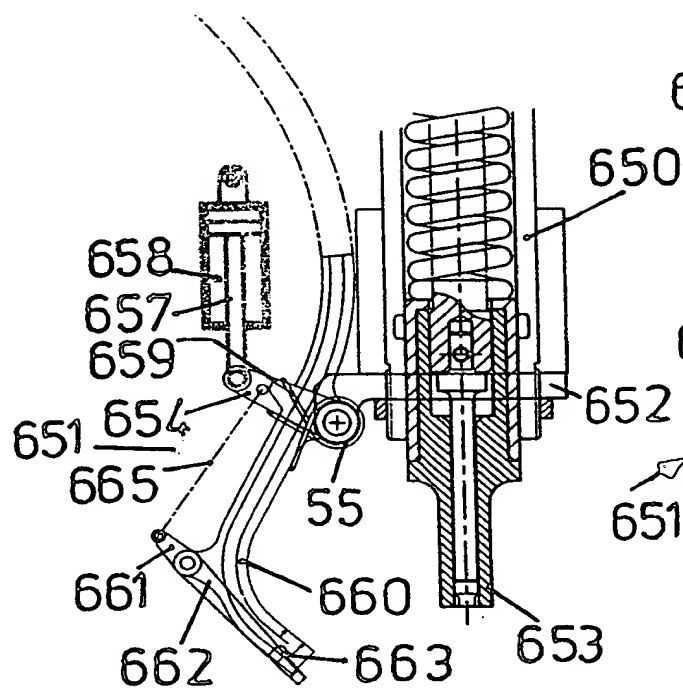
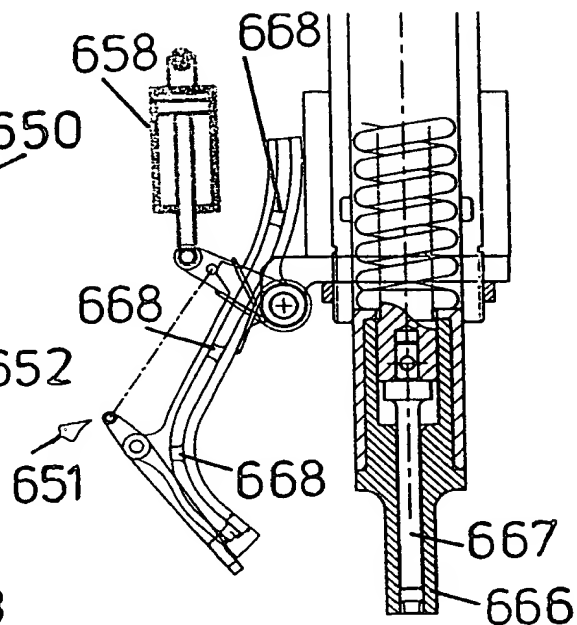
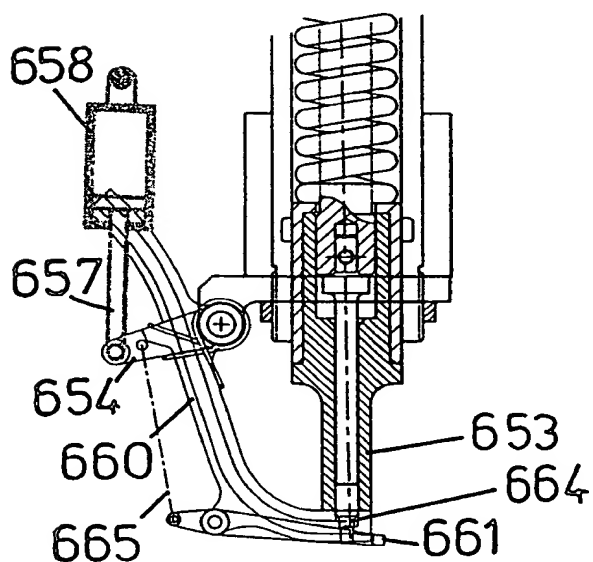
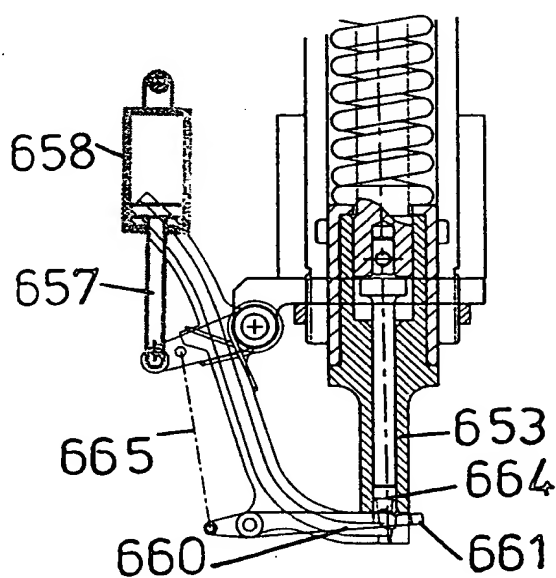


FIG. 43

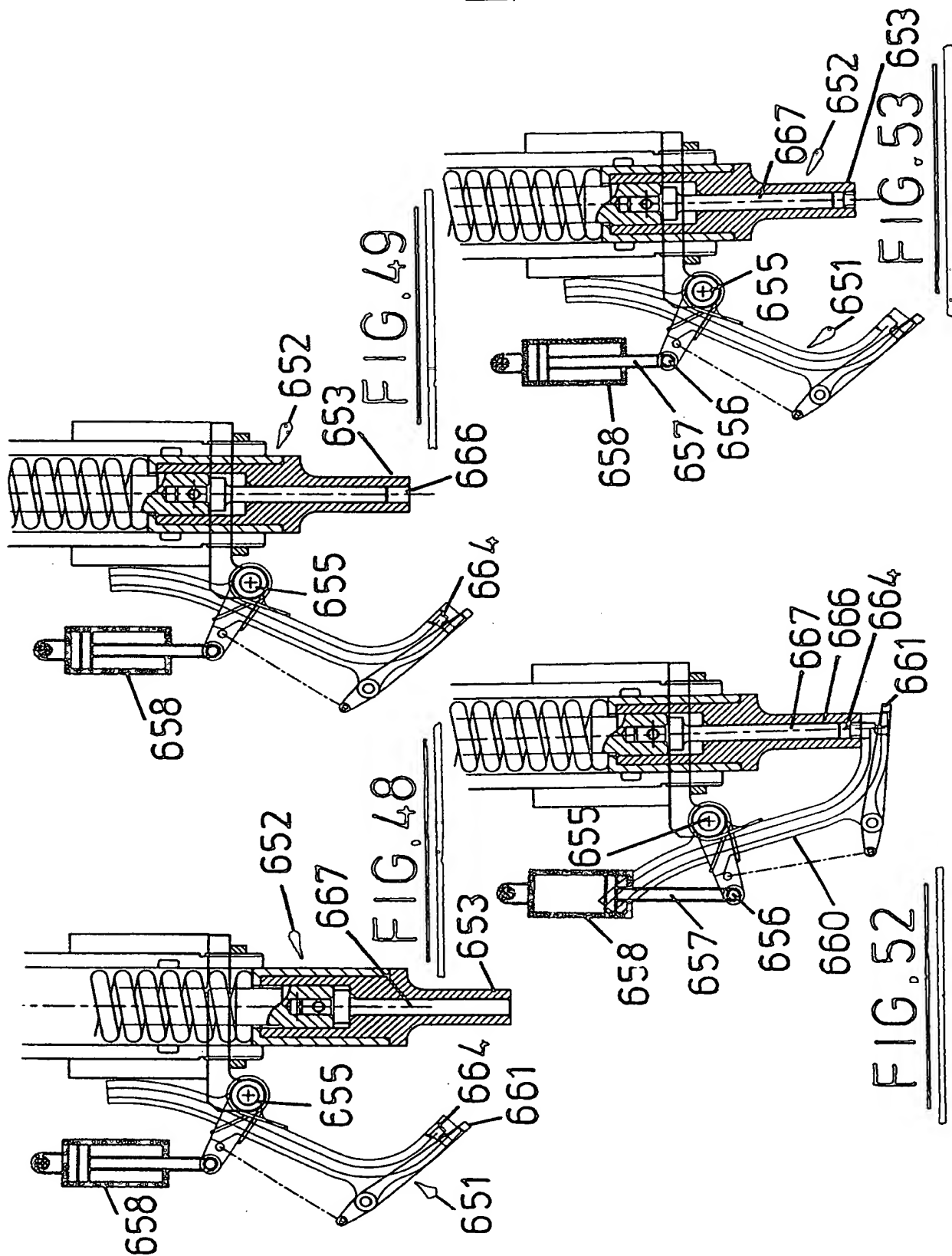


4957

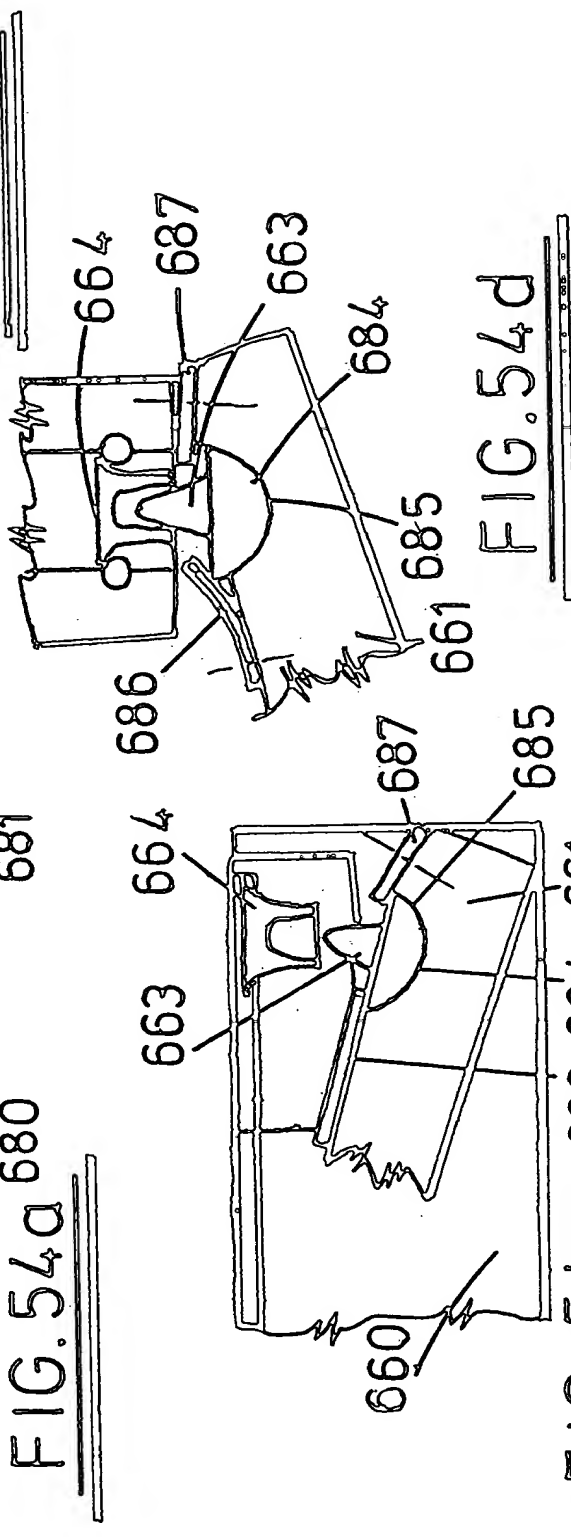
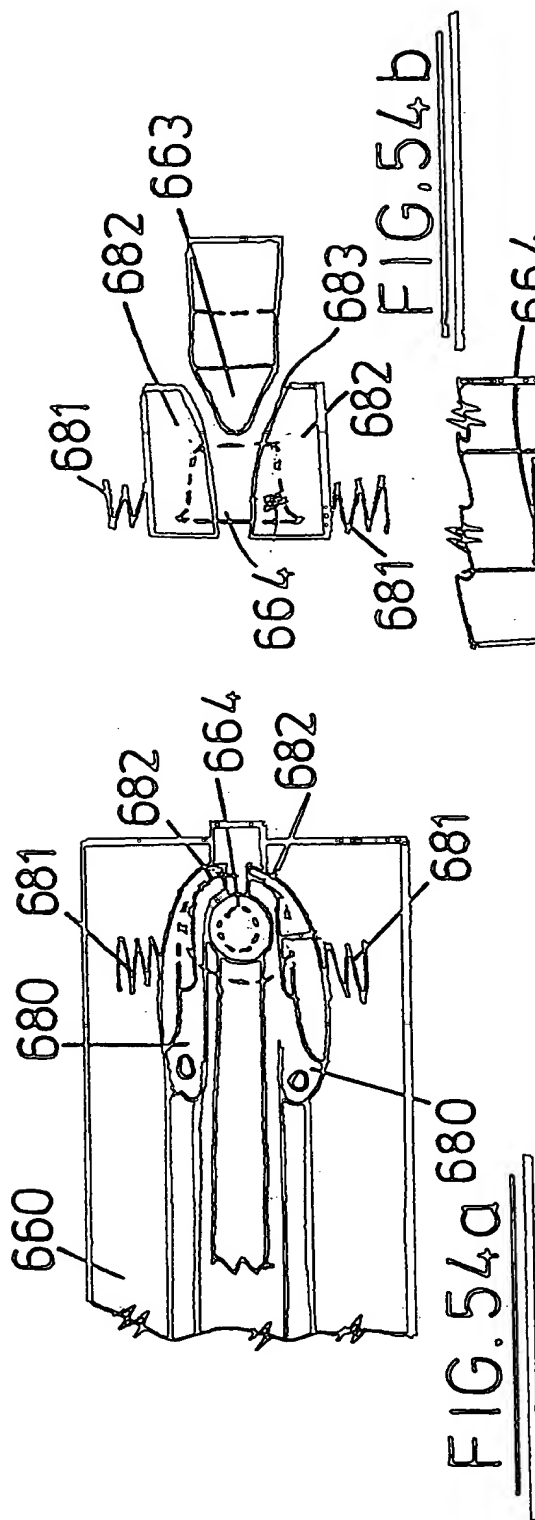


50-57FIG. 46FIG. 47FIG. 50FIG. 51

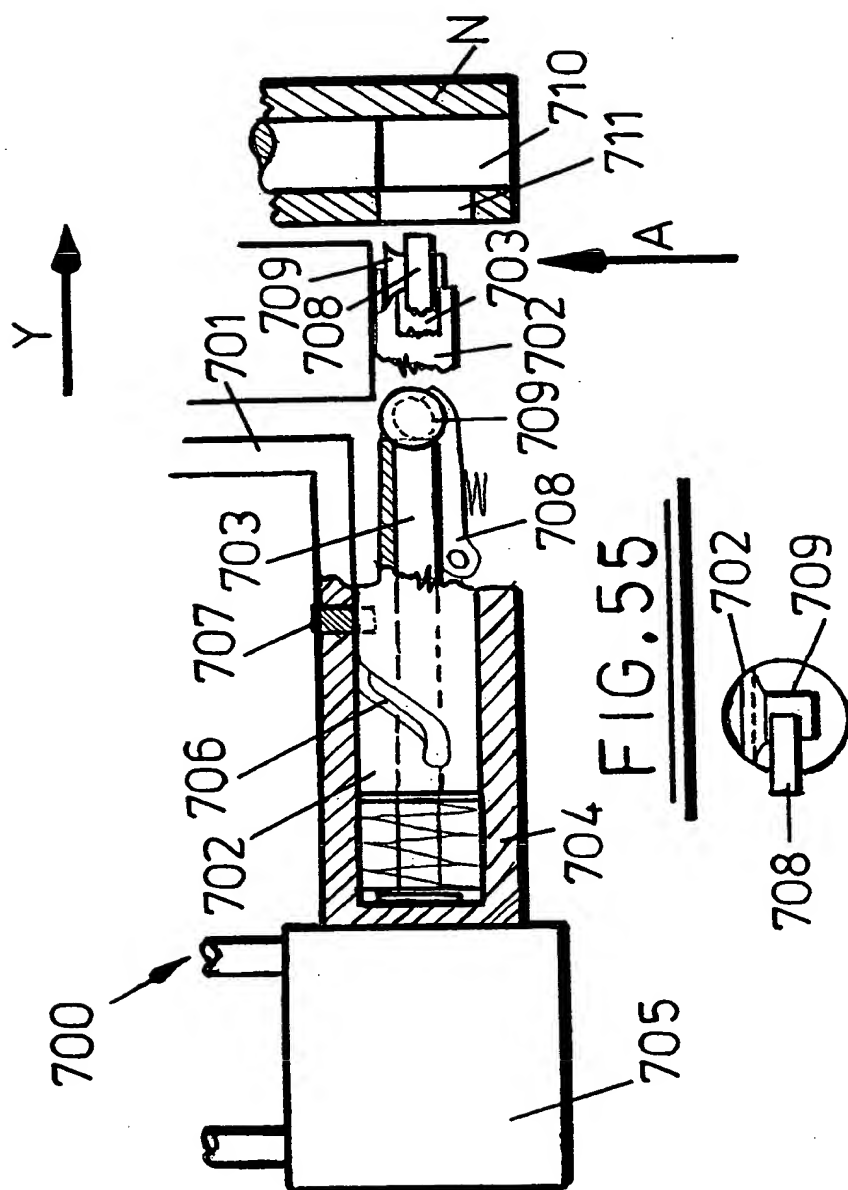
51-57



52-57

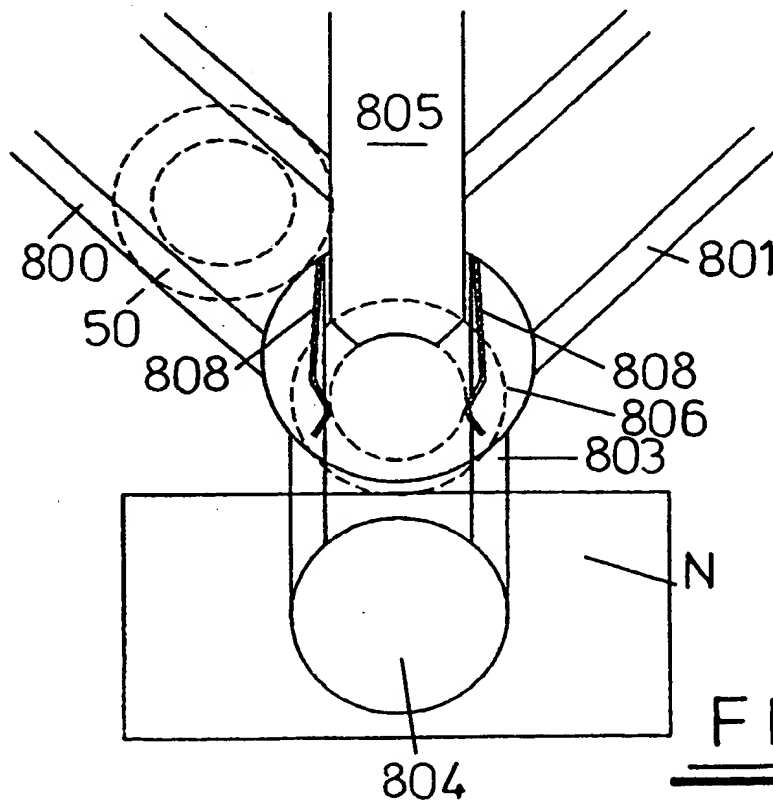
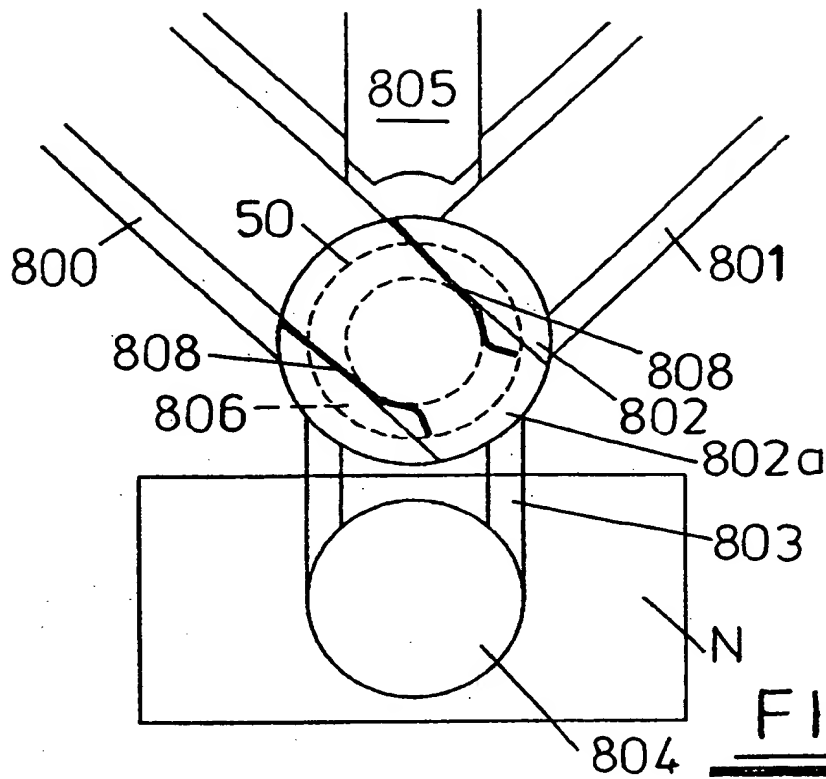


53-57



16.55

54-57



55-57

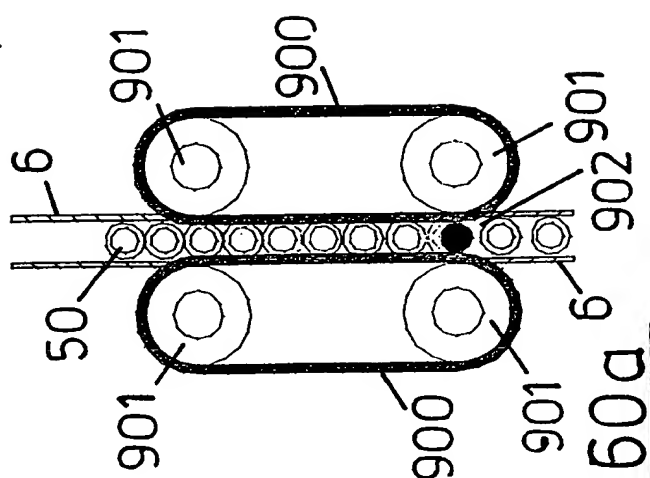


FIG. 59a

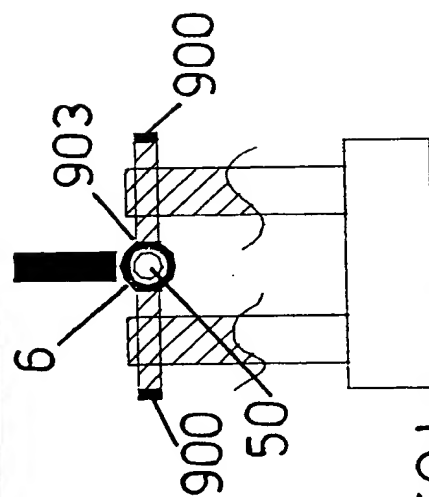


FIG. 59b

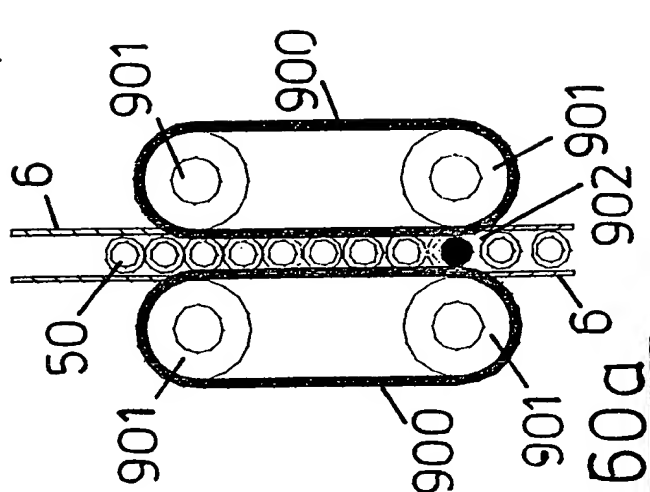


FIG. 60a

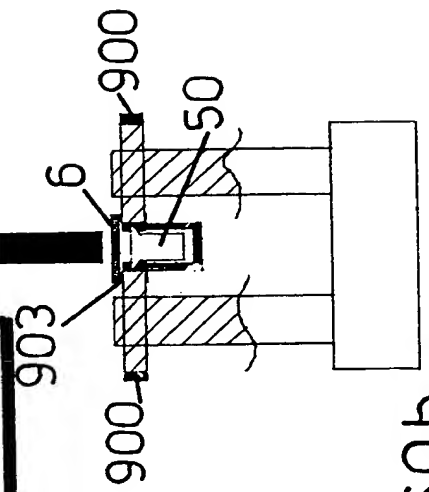


FIG. 60b

5657

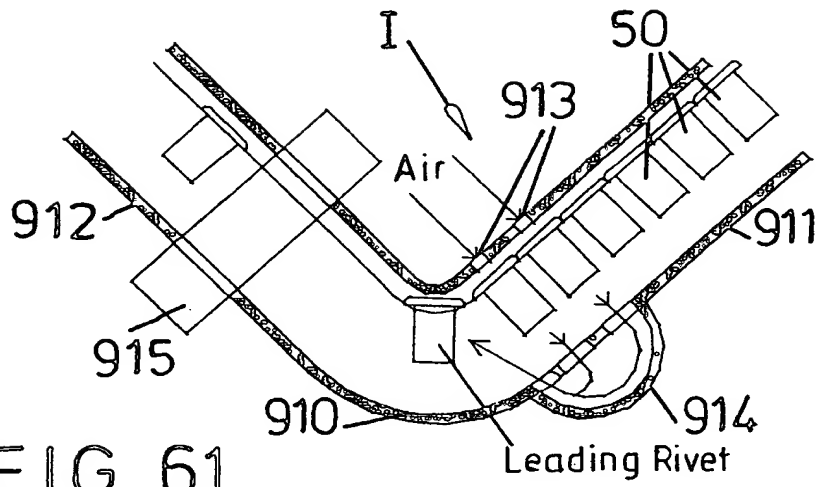


FIG. 61

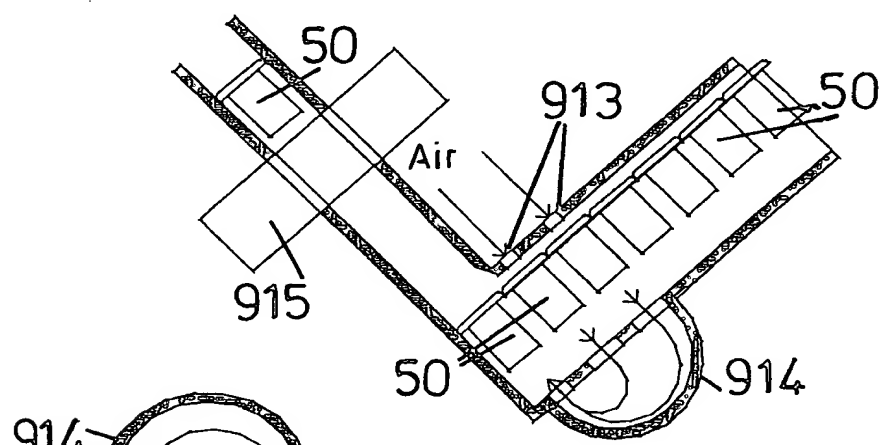


FIG. 62

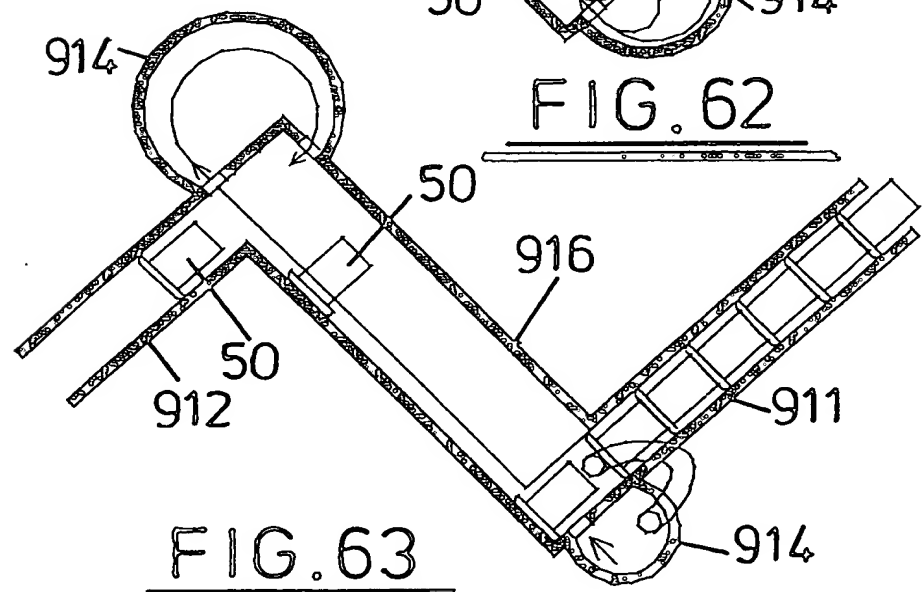


FIG. 63



57:57

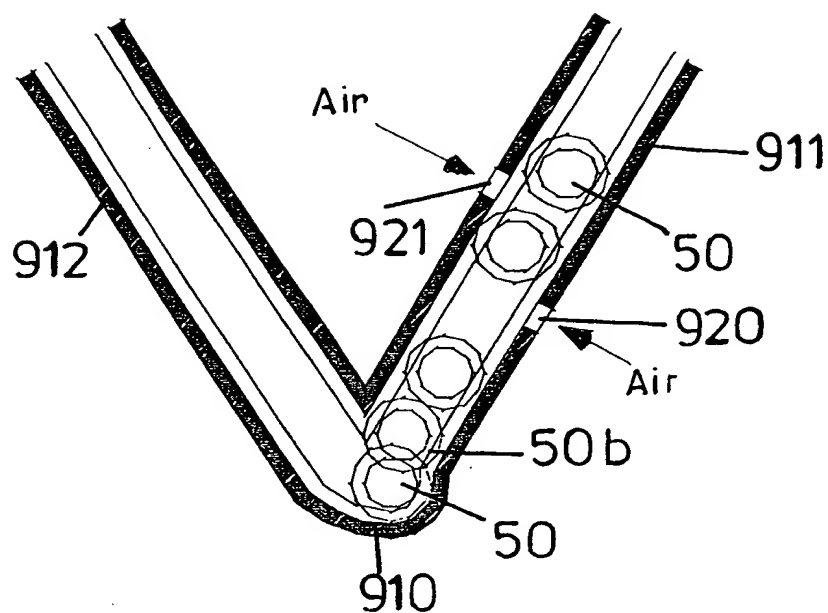


FIG. 64

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 99/02545

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 B21J15/32

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B21J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A Y Y A X	<p>US 2 493 868 A (GRIFFIN) 10 January 1950 (1950-01-10) column 3, line 16 -column 5, line 51; figures</p> <p>---</p> <p>US 4 044 462 A (ANSELMO DARIO) 30 August 1977 (1977-08-30) column 2, line 60 -column 3, line 54; figures</p> <p>---</p> <p>US 5 472 087 A (RINK PHILIP A ET AL) 5 December 1995 (1995-12-05) column 3, line 5 - line 29</p> <p>column 3, line 46 - line 53 column 4, line 16 - line 44; figures</p> <p>---</p> <p style="text-align: center;">-/--</p>	<p>1,2,8,9</p> <p>14-16, 32,48,58</p> <p>1,8-10, 14,15,19</p> <p>1,8-10, 14,15,19 32,35, 48,58 52-54,56</p>

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

15 December 1999

Date of mailing of the international search report

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International Application No

PCT/GB 99/02545

## C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	page 6, line 20 - page 8, line 9; figures	27, 37, 72, 73
A	DE 297 19 744 U (EMHART INC) 26 February 1998 (1998-02-26) page 9, line 14 - line 30 page 11, line 4 - line 16 page 12, line 28 - page 13, line 26; figures	1, 14-17
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A	WO 95 28242 A (BLACKET STUART EDMUND ; GOSTYLLA WOJCIECH (AU); HENROB LTD (GB)) 26 October 1995 (1995-10-26) page 7, line 19 - page 8, line 9; figures 5, 6	72, 73
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Information on patent family members

International Application No

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